

REMARKS

I. Status of the Claims

Claims 96-99, 101, 123, 135, 142, 167, 170, 175, 192, 194, and 203-206 are pending in this application. Claims 1-3, 6, 28, 40, 47, 72, 75, 80, 191, 193, and 195-202 are cancelled herein without prejudice or disclaimer. No new matter has been added by this amendment.

Applicants thank the Office for indicating that claims 96-99, 101, 123, 135, 142, 167, 170, 175, 203, and 206 are allowed.

II. Rejection Under 35 U.S.C. § 112, First Paragraph

The Office has rejected claims 1-3, 6, 28, 40, 47, 72, 75, 80, 191, 193, and 195-202 under 35 U.S.C. § 112, first paragraph, as failing to comply with the written description requirement. See Office Action at 2. The Office alleges that there is no support in the specification for the claims drawn to a method for increasing the intensity of color in a composition. See *id.* While Applicants maintain that the claims are patentable and that the specification provides adequate support, in an effort to advance prosecution, the rejected claims have been cancelled. Thus, the rejection of claims 1-3, 6, 28, 40, 47, 72, 75, 80, 191, 193, and 195-202 under § 112, first paragraph, is obviated.

III. Rejection Under 35 U.S.C. § 112, Second Paragraph

Further to the telephone conference of December 22, 2006, between the Examiner and Applicants' representatives Courtney Meeker and Michelle O'Brien, Applicants understand that the Examiner will issue an Interview Summary indicating that

the rejection of claims 192, 194, and 204-205 under 35 U.S.C. § 112, second paragraph, as being indefinite, is being withdrawn. Accordingly, as this rejection is mooted, Applicants have not addressed the rejection herein; however, Applicants reserve the right to traverse this rejection if necessary at a later time.

IV. Commonly Assigned Co-Pending Applications and Patents

As in previous submissions, for the Office's convenience, Applicants identify in Table 1 below an additional co-pending application that has been filed and enclose herewith in Exhibit 1 a copy of the co-pending claims for that case. Furthermore, for the Office's convenience, Applicants have also provided herewith in Exhibit 1 copies of the currently pending or allowed claims from the following co-pending applications, which claims have been amended or allowed since December 15, 2005, in the following applications: 09/685,577; 09/733,898; 10/046,568; 10/047,987; 10/129,377; 10/182,830; 10/198,931; 10/203,018; 10/203,254; 10/203,374; 10/203,375; 10/413,217; 10/450,108; 10/459,636; 10/787,440; and 10/993,430. Applicants submit these claims for the Office's convenience in evaluating any potential issues regarding statutory or obviousness-type double patenting.

Table 1.

Attorney Docket No.	U.S. Patent Application No.	U.S. Filing Date or § 371(c) Date	Inventor(s)	Title	Assignment Recorded (Reel, Frame, Date)	Publication, Date
05725.1538-00000	11/312,338	December 21, 2005	Isabelle JACQUIER	COMPOSITION AND PROCESS FOR COATING KERATIN FIBERS	Reel 017768, Frame 0989, on April 10, 2006	Not yet published.

Attorney Docket No.	U.S. Patent Application No.	U.S. Filing Date or § 371(c) Date	Inventor(s)	Title	Assignment Recorded (Reel, Frame, Date)	Publication, Date
06028. 0130- 00000	11/406,371	April 19, 2006	Véronique FERRARI and Hélène KHACHIKI AN	COSMETIC COMPOSITION COMPRISING SILICA PARTICLES, REFLECTING PARTICLES, AND AT LEAST ONE POLYMER, PREPARATIVE PROCESSES, AND USES THEREOF	Reel 018108 Frame 0536 on July 17, 2006	U.S. Published Application No. 2006/025733 6 A1 Dated Nov 16, 2006

V. Conclusion

In view of the foregoing remarks, Applicants respectfully request the reconsideration of this application and the timely allowance of the pending claims.

Please grant any extensions of time required to enter this response and charge any additional required fees to Deposit Account No. 06-0916.

Respectfully submitted,

FINNEGAN, HENDERSON, FARABOW,
GARRETT & DUNNER, L.L.P.

Dated: December 27, 2006

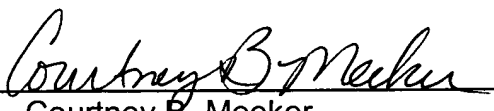
By: 
Courtney B. Meeker
Reg. No. 56,821

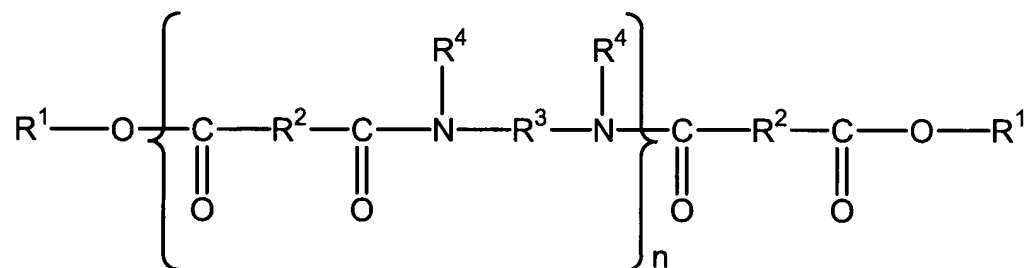
EXHIBIT 1

Pending Claims
Application No. 09/685,577
Attorney Docket No.: 05725.0656-01000
Filed: October 11, 2000

Claim 1 (currently amended): A structured cosmetic composition comprising:

(i) at least one continuous liquid fatty phase,

wherein said at least one continuous liquid fatty phase is structured with a sufficient amount of at least one polymer of formula (I) and mixtures thereof:



in which:

- n is an integer which represents the number of amide units such that the number of ester groups present in said at least one structuring polymer ranges from 10% to 50% of the total number of all said ester groups and all said amide groups comprised in said at least one structuring polymer;

- R¹, which are identical or different, are each chosen from alkyl groups comprising at least 4 carbon atoms and alkenyl groups comprising at least 4 carbon atoms;

- R², which are identical or different, are each chosen from C₄ to C₄₂ hydrocarbon-based groups with the proviso that at least 50% of R² are chosen from C₃₀ to C₄₂ hydrocarbon-based groups;

- R^3 , which are identical or different, are each chosen from organic groups comprising atoms chosen from carbon atoms, hydrogen atoms, oxygen atoms and nitrogen atoms with the proviso that R^3 comprises at least 2 carbon atoms; and

- R^4 , which are identical or different, are each chosen from hydrogen atoms, C_1 to C_{10} alkyl groups and a direct bond to group chosen from R^3 and another R^4 such that when said at least one group is chosen from another R^4 , the nitrogen atom to which both R^3 and R^4 are bonded forms part of a heterocyclic structure defined in part by R^4-N-R^3 , with the proviso that at least 50% of all R^4 are chosen from hydrogen atoms;

(ii) at least one amphiphilic compound chosen from amphiphilic compounds which are liquid at room temperature and have an HLB value of less than 12; and

(iii) at least one dyestuff,

wherein said structured composition is in the form of a non-migrating, wax-free solid, and

wherein said at least one continuous liquid fatty phase, said at least one polymer, said at least one amphiphilic compound, and said at least one dyestuff form a physiologically acceptable medium.

Claims 2 - 47 (canceled).

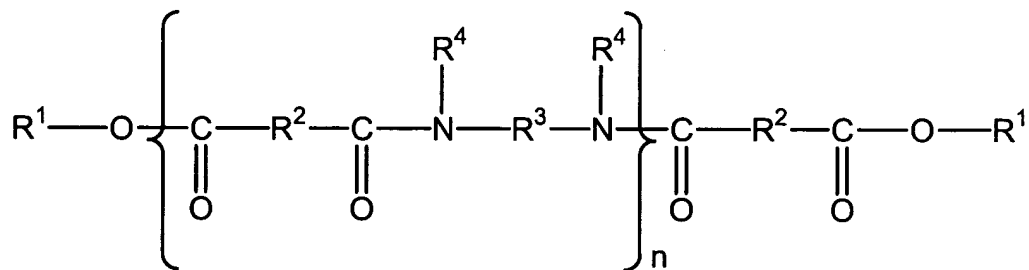
Claim 48 (currently amended): A composition according to Claim 1, wherein said HLB value ranges from 1 to 7.

Claim 49 (currently amended): A composition according to Claim 48, wherein said HLB value ranges from 1 to 5.

Claims 50 - 149 (canceled).

Claim 150 (currently amended): A process of structuring a cosmetic composition in the form of a physiologically acceptable composition, which is wax-free and non-migrating comprising including in said composition

(i) at least one liquid continuous fatty phase, said at least one liquid continuous fatty phase being structured with a sufficient amount of at least one polymer of formula (I) and mixtures thereof:



in which:

- n is an integer which represents the number of amide units such that the number of ester groups present in said at least one structuring polymer ranges from 10% to 50% of the total number of all said ester groups and all said amide groups comprised in said at least one structuring polymer;

- R^1 , which are identical or different, are each chosen from alkyl groups comprising at least 4 carbon atoms and alkenyl groups comprising at least 4 carbon atoms;

- R^2 , which are identical or different, are each chosen from C_4 to C_{42} hydrocarbon-based groups with the proviso that at least 50% of R^2 are chosen from C_{30} to C_{42} hydrocarbon-based groups;

- R^3 , which are identical or different, are each chosen from organic groups comprising atoms chosen from carbon atoms, hydrogen atoms, oxygen atoms and nitrogen atoms with the proviso that R^3 comprises at least 2 carbon atoms; and

- R^4 , which are identical or different, are each chosen from hydrogen atoms, C_1 to C_{10} alkyl groups and a direct bond to group chosen from R^3 and another R^4 such that when said at least one group is chosen from another R^4 , the nitrogen atom to which both R^3 and R^4 are bonded forms part of a heterocyclic structure defined in part by R^4-N-R^3 , with the proviso that at least 50% of all R^4 are chosen from hydrogen atoms;

(ii) at least one amphiphilic compound chosen from amphiphilic compounds which are liquid at room temperature and have an HLB value of less than 12; and

(iii) at least one dyestuff,

wherein said composition is wax-free and non-migrating.

Claims 151 - 154 (canceled).

155 (currently amended): A process according to Claim 150, wherein said HLB value ranges from 1 to 7.

Claim 156 (original): A process according to Claim 155, wherein said HLB value ranges from 1 to 5.

Claims 157 to 188 (canceled).

Claim 189 (new): A structured cosmetic composition comprising:

(i) at least one continuous liquid fatty phase, wherein said at least one continuous liquid fatty phase is structured with a sufficient amount of at least one polymer chosen from ethylenediamine/stearyl dimer tallate copolymer;

(ii) at least one amphiphilic compound chosen from amphiphilic compounds which are liquid at room temperature and have an HLB value of less than 12; and

(iii) at least one dyestuff;

wherein said structured composition is in the form of a non-migrating, wax-free solid, and

wherein said at least one continuous liquid fatty phase, said at least one polymer, said at least one amphiphilic compound, and said at least one dyestuff form a physiologically acceptable medium.

Claim 190 (new): A process of structuring a cosmetic composition in the form of a physiologically acceptable composition, which is wax-free and non-migrating comprising including in said composition:

(i) at least one liquid continuous fatty phase, said at least one liquid continuous fatty phase being structured with a sufficient amount of at least one polymer chosen from ethylenediamine/stearyl dimer tallate copolymer;

(ii) at least one amphiphilic compound chosen from amphiphilic compounds which are liquid at room temperature and have an HLB value of less than 12; and

(iii) at least one dyestuff,

wherein said composition is wax-free and non-migrating.

Claim 191 (new): A structured cosmetic composition comprising:

(i) at least one continuous liquid fatty phase, wherein said at least one continuous liquid fatty phase is structured with a sufficient amount of at least one polymer chosen from ethylenediamine/stearyl dimer dilinoleate copolymer;

(ii) at least one amphiphilic compound chosen from amphiphilic compounds which are liquid at room temperature and have an HLB value of less than 12; and

(iii) at least one dyestuff,

wherein said structured composition is in the form of a non-migrating, wax-free solid, and

wherein said at least one continuous liquid fatty phase, said at least one polymer, said at least one amphiphilic compound, and said at least one dyestuff form a physiologically acceptable medium.

Claim 192 (new): A process of structuring a cosmetic composition in the form of a physiologically acceptable composition, which is wax-free and non-migrating comprising including in said composition

(i) at least one liquid continuous fatty phase, said at least one liquid continuous fatty phase being structured with a sufficient amount of at least one polymer chosen from ethylenediamine/stearyl dimer dilinoleate copolymer;

(ii) at least one amphiphilic compound chosen from amphiphilic compounds which are liquid at room temperature and have an HLB value of less than 12; and

(iii) at least one dyestuff,

wherein said composition is wax-free and non-migrating.

PENDING CLAIMS
Application No. 09/733,898
Attorney Docket No. 05725.0808-00000
Filed: December 12, 2000

Claims 1-335 (canceled).

Claim 336: A composition comprising at least one liquid fatty phase, the liquid fatty phase comprising:

(i) at least one structuring polymer, wherein the at least one structuring polymer is at least one polyamide polymer comprising a polymer skeleton that comprises:

(1) at least one amide repeating unit;

(2) at least one terminal fatty chain chosen from the group consisting of alkyl chains and alkenyl chains, wherein the at least one terminal fatty chain is bonded to the polymer skeleton via at least one ester group; and

(3) optionally at least one pendant fatty chain chosen from alkyl chains and alkenyl chains, wherein the at least one pendant fatty chain is bonded to the polymer skeleton via at least one linking group; and

(ii) at least one oil-soluble ester comprising at least one free hydroxy group, with the proviso that the at least one oil-soluble ester is not castor oil; wherein the at least one oil-soluble ester is present in the composition in an effective amount to increase at least one of stability and gelling efficiency.

Claim 337: The composition of claim 336, wherein the at least one structuring polymer is ethylenediamine/stearyl dimer tallate copolymer.

Claim 338: The composition of claim 336, wherein the at least one structuring polymer is ethylenediamine/stearyl dimer dilinoleate copolymer.

Claim 339: The composition of claim 336, wherein the at least one oil-soluble ester comprising at least one free hydroxy group is chosen from propylene glycol ricinoleate, isopropyl hydroxystearate, triisocetyl citrate, diisostearyl malate, octyl hydroxystearate, triisoarachidyl citrate, cetyl lactate, dioctyl malate, octyldodecyl hydroxystearate, di-isostearyl malate, and di-isostearyl lactate.

Claim 340: The composition of claim 336, further comprising at least one additional fatty material.

Claim 341: The composition of claim 340, wherein the at least one additional fatty material is chosen from gums, fatty materials pasty at ambient temperature, and resins.

Claim 342: The composition of claim 336, wherein the composition further comprises at least one fatty alcohol.

Claim 343: The composition of claim 342, wherein the at least one fatty alcohol is chosen from C₈ to C₂₆ fatty alcohols.

Claim 344: The composition of claim 343, wherein the at least one fatty alcohol is chosen from myristyl alcohol, cetyl alcohol, stearyl alcohol, and behenyl alcohol.

Claim 345: The composition of claim 342, wherein the at least one fatty alcohol is present in a concentration ranging from about 0.1% to about 15.0% by weight, relative to the weight of the composition.

Claim 346: The composition of claim 336, further comprising at least one oil-soluble polymer.

Claim 347: The composition of claim 346, wherein the at least one oil-soluble polymer is chosen from guar gums and alkyl celluloses.

Claim 348: The composition of claim 346, wherein the at least one oil-soluble polymer is present in a concentration ranging from about 0.05% to about 10.0% by weight, relative to the weight of the composition.

Claim 349: The composition of claim 336, further comprising at least one wax.

Claim 350: The composition of claim 349, wherein the at least one wax is chosen from carnauba wax, candelilla wax, ouricury wax, Japan wax, cork fiber fax, sugar cane wax, paraffin waxes, lignite wax, microcrystalline waxes, lanolin wax, montan wax, polyethylene waxes, waxes obtained by Fischer-Tropsch synthesis, silicone waxes, ozokerites, hydrogenated jojoba oil, fatty acid esters, and fatty acid ester glycerides.

Claim 351: The composition of claim 349, wherein the at least one wax is present in a concentration of up to about 50% by weight, relative to the weight of the composition.

Claim 352: The composition of claim 336, further comprising at least one preserving agent.

Claim 353: The composition of claim 352, wherein the at least one preserving agent is chosen from methylparaben, ethylparaben, propylparaben, and butylparaben.

Claim 354: The composition of claim 336, further comprising at least one coloring agent.

Claim 355: The composition of claim 336, wherein the at least one liquid fatty phase further comprises at least one oil.

Claim 356: The composition of claim 355, wherein the at least one oil is chosen from at least one polar oil and at least one apolar oil.

Claim 357: The composition of claim 356, wherein the at least one polar oil is chosen from hydrocarbon-based plant oils with a high content of triglycerides comprising fatty acid esters of glycerol in which the fatty acids comprise chains having from 4 to 24 carbon atoms, said chains optionally being chosen from linear and branched, and saturated and unsaturated chains; synthetic oils or esters of formula R_5COOR_6 in which R_5 is chosen from linear and branched fatty acid residues comprising from 1 to 40 carbon atoms, R_6 is chosen from a hydrocarbon-based chain comprising from 1 to 40 carbon atoms, and the number of carbon atoms in R_5 plus the number of carbon in R_6 is greater than or equal to 10; synthetic ethers containing from 10 to 40 carbon atoms; C_8 to C_{26} fatty alcohols; and C_8 to C_{26} fatty acids.

Claim 358: The composition of claim 356, wherein the at least one apolar oil is chosen from silicone oils chosen from volatile and non-volatile, linear and cyclic polydimethylsiloxanes that are liquid at room temperature; polydimethylsiloxanes comprising alkyl or alkoxy groups which are pendant and/or at the end of the silicone chain, the groups each containing from 2 to 24 carbon atoms; phenylsilicones; and hydrocarbons chosen from linear and branched, volatile and non-volatile hydrocarbons of synthetic and mineral origin.

Claim 359: The composition of claim 336, wherein the at least one liquid fatty phase further comprises at least one non-volatile oil.

Claim 360: The composition of claim 359, wherein the at least one non-volatile oil is chosen from hydrocarbon-based oils of mineral, plant and synthetic origin, synthetic esters and ethers, and silicone oils.

Claim 361: The composition of claim 336, wherein the at least one liquid fatty phase further comprises at least one volatile solvent chosen from hydrocarbon-based solvents and silicone solvents optionally comprising alkyl or alkoxy groups that are pendant or at the end of a silicone chain.

Claim 362: The composition of claim 361, wherein the at least one volatile solvent is present in an amount up to 95.5% relative to the total weight of the composition.

Claim 363: The composition of claim 336, further comprising at least one oil-soluble cationic surfactant.

Claim 364: The composition of claim 363, wherein the at least one oil-soluble cationic surfactant is chosen from quaternary ammonium compounds, fatty amines, and salts of fatty amines.

Claim 365: The composition of claim 363, wherein the at least one oil-soluble cationic surfactant is present in a concentration ranging from 0.1% to 10% by weight, relative to the weight of the composition.

Claim 366: The composition of claim 336, wherein the at least one liquid fatty phase is present in an amount ranging from 1% to 99% by weight relative to the total weight of the composition.

Claim 367: The composition of claim 336, wherein the composition is a mascara.

Claim 368: The composition of claim 357, wherein the synthetic oil or ester of formula R_5COOR_6 is chosen from the group consisting of cetostearyl octanoate, isononyl isnonanoate, C_{12} - C_{15} alkyl benzoates, isopropyl myristate, 2-ethylhexyl palmitate, isostearyl isostearate; alkyl or polyalkyl octanoates, decanoates, or ricinoleates; hydroxylated esters; and pentaerythritol esters.

ISSUED CLAIMS

Application No. 10/046,568

Patent No. 7,025,953

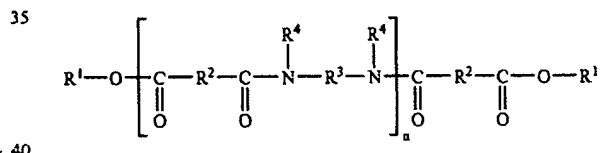
Attorney Docket No. 05725.1018-00000

Filed January 16, 2002

ISSUED CLAIMS
 Application No. 10/047,987
 Patent No. 7,052,681
 Issued: May 30, 2006
 Attorney Docket No. 5725.1020-00
 Filed: January 17, 2002

What is claimed is:

1. A composition comprising at least one liquid fatty
 30 phase which comprises at least one fluoro oil, wherein the at
 least one liquid fatty phase is structured with at least one
 structuring polymer chosen from polyamide polymers of
 formula (I):



in which:

- 45 n is an integer which represents the number of amide units
 such that the number of ester groups present in said at
 least one polyamide polymer ranges from 10% to 50%
 of the total number of all ester groups and all amide
 groups comprised in said at least one polyamide poly-
 mer;
- 50 R^1 is independently chosen from alkyl and alkenyl groups
 containing at least 4 carbon atoms;
- R^2 is independently chosen from C_4 to C_{42} hydrocarbon-
 based groups, wherein 50% of the R^2 groups are chosen
 55 from C_{30} to C_{42} hydrocarbon-based groups;
- R^3 is independently chosen from organic groups contain-
 ing at least 2 carbon atoms, hydrogen, and optionally at
 least one atom chosen from oxygen and nitrogen atoms;
 and
- 50 R^4 is independently chosen from hydrogen and C_1 to C_{10}
 alkyl groups, wherein at least 50% of the R^4 groups are
 hydrogen.
2. The composition according to claim 1, wherein said at
 55 least one structuring polymer is present in the composition
 in an amount ranging from 0.5% to 80% by weight relative
 to the total weight of the composition.

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 7,052,681 B2
APPLICATION NO. : 10/047987
DATED : May 30, 2006
INVENTOR(S) : Veronique Ferrari

Page 1 of 1

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In claim 1, column 18, line 51, "containing" should read --with--.

In claim 1, column 18, lines 56-57, "containing" should read --with--.

In claim 1, column 18, lines 57-58, delete " , and optionally at least one atom chosen from oxygen and nitrogen atoms".

In claim 3, column 19, line 16, "containing" should read --with--.

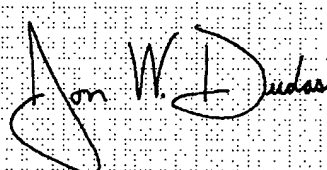
In claim 9, column 20, line 29, "perfluompolyethers" should read --perfluoropolyethers--.

In claim 10, column 20, line 66, "Is" should read --is--.

In claim 15, column 21, line 56, "non-volatile oil." should read --non-volatile oils.--.

Signed and Sealed this

Nineteenth Day of September, 2006

A handwritten signature in black ink, appearing to read "Jon W. Dudas", is written over a rectangular area of fine dotted grid paper.

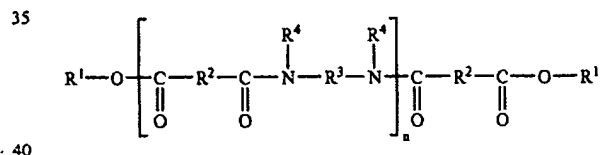
JON W. DUDAS

Director of the United States Patent and Trademark Office

ISSUED CLAIMS
 Application No. 10/047,987
 Patent No. 7,052,681
 Issued: May 30, 2006
 Attorney Docket No. 5725.1020-00
 Filed: January 17, 2002

What is claimed is:

1. A composition comprising at least one liquid fatty
 30 phase which comprises at least one fluoro oil, wherein the at
 least one liquid fatty phase is structured with at least one
 structuring polymer chosen from polyamide polymers of
 formula (I):



in which:

- n is an integer which represents the number of amide units
 45 such that the number of ester groups present in said at
 least one polyamide polymer ranges from 10% to 50%
 of the total number of all ester groups and all amide
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 mer;
- 50 R^1 is independently chosen from alkyl and alkenyl groups
 containing at least 4 carbon atoms;
- R^2 is independently chosen from C_4 to C_{42} hydrocarbon-
 based groups, wherein 50% of the R^2 groups are chosen
 55 from C_{30} to C_{42} hydrocarbon-based groups;
- R^3 is independently chosen from organic groups contain-
 ing at least 2 carbon atoms, hydrogen, and optionally at
 least one atom chosen from oxygen and nitrogen atoms;
 and
- 50 R^4 is independently chosen from hydrogen and C_1 to C_{10}
 alkyl groups, wherein at least 50% of the R^4 groups are
 hydrogen.
2. The composition according to claim 1, wherein said at
 55 least one structuring polymer is present in the composition
 in an amount ranging from 0.5% to 80% by weight relative
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INVENTOR(S) : Veronique Ferrari

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In claim 3, column 19, line 16, "containing" should read --with--.

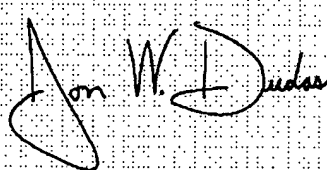
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JON W. DUDAS

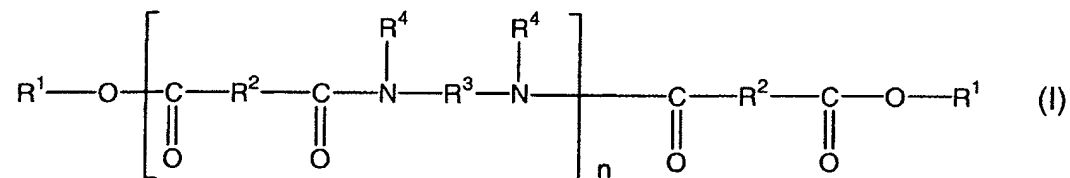
Director of the United States Patent and Trademark Office

Pending Claims
Application No. 10/129,377
Attorney Docket No. 05725.0819-01
Filed: May 3, 2002

1-126. (Cancelled.)

127. (Previously presented) A composition comprising at least one liquid fatty phase which comprises:

(i) at least one structuring polymer chosen from polyamide polymers of formula (I):



in which:

- n is an integer which represents the number of amide units such that the number of ester groups present in said at least one polyamide polymer ranges from 10% to 50% of the total number of all ester groups and all amide groups comprised in said at least one polyamide polymer;

- R^1 , which are identical or different, are each chosen from alkyl groups comprising at least 4 carbon atoms and alkenyl groups comprising at least 4 carbon atoms;

- R^2 , which are identical or different, are each chosen from C_4 to C_{42} hydrocarbon-based groups with the proviso that at least 50% of all R^2 are chosen from C_{30} to C_{42} hydrocarbon-based groups;

- R^3 , which are identical or different, are each chosen from organic groups comprising atoms chosen from carbon atoms, hydrogen atoms, oxygen atoms and nitrogen atoms with the proviso that R^3 comprises at least 2 carbon atoms; and

- R^4 , which are identical or different, are each chosen from hydrogen atoms, C_1 to C_{10} alkyl groups and a direct bond to at least one group chosen from R^3 and another R^4 such that when said at least one group is chosen from another R^4 , the nitrogen atom to which both R^3 and R^4 are bonded forms part of a heterocyclic structure defined in part by R^4-N-R^3 , with the proviso that at least 50% of all R^4 are chosen from hydrogen atoms; and

(ii) at least one organogelator.

128. (Previously presented) The composition according to claim 127, wherein the composition is anhydrous.

129. (Previously presented) The composition according to claim 127, wherein said at least one structuring polymer has a weight-average molecular mass of less than 100,000.

130. (Previously presented) The composition according to claim 127, wherein in said formula (I), n is an integer ranging from 1 to 5.

131. (Previously presented) The composition according claim 127, wherein in said formula (I), R^1 , which are identical or different, are each chosen from C_{12} to C_{22} alkyl groups.

132. (Previously presented) The composition according claim 127, wherein in said formula (I), R^2 , which are identical or different, are each chosen from C_{10} to C_{42}

hydrocarbon based groups with the proviso that at least 50% of all R^2 are chosen from C_{30} to C_{42} hydrocarbon based groups.

133. (Previously presented) The composition according to claim 127, wherein in said formula (I), R^3 , which can be identical or different, are each chosen from C_2 to C_{36} hydrocarbon-based groups and polyoxyalkylene groups.

134. (Previously presented) The composition according claim 127, wherein in said formula (I), R^4 , which can be identical or different, are each chosen from hydrogen atoms.

135. (Previously presented) The composition according to claim 127, wherein said at least one structuring polymer is present in the composition in an amount ranging from 0.5% to 80% by weight relative to the total weight of the composition.

136. (Previously presented) The composition according to claim 127, wherein said at least one liquid fatty phase of the composition further comprises at least one oil which is chosen from at least one polar oil and at least one apolar oil having an affinity with said at least one structuring polymer and/or with said at least one organogelator.

137. (Previously presented) The composition according to claim 127, wherein said at least one liquid fatty phase further comprises at least one non-volatile oil.

138. (Previously presented) The composition according to claim 127, wherein said at least one liquid fatty phase is present in an amount ranging from 1% to 99% by weight relative to the total weight of the composition.

139. (Previously presented) The composition according to claim 127, wherein said at least one liquid fatty phase comprises at least one volatile solvent chosen from hydrocarbon-based solvents and silicone solvents optionally comprising at least one

group chosen from alkyl groups and alkoxy groups that are pendant and/or at the end of a silicone chain.

140. (Previously presented) The composition according to claim 127, wherein said composition further comprises at least one additional fatty material chosen from gums, fatty materials pasty at ambient temperature, and resins.

141. (Previously presented) The composition according to claim 127, wherein said at least one organogelator is chosen from non-polymeric organic compounds whose molecules are capable of establishing, between themselves, at least one physical interaction leading to a self-aggregation of said molecules with formation of a macromolecular 3-dimensional network.

142. (Previously presented) The composition according to claim 127, wherein said at least one organogelator is chosen from compounds whose molecules comprise at least one entity chosen from at least one group capable of establishing hydrogen bonding; at least one aromatic ring; at least one bond comprising ethylenic unsaturation; or at least one asymmetric carbon.

143. (Currently amended) The composition according to claim 127, wherein said at least one organogelator is chosen from :

- hydroxylated carboxylic fatty acids comprising a chain chosen from linear and branched aliphatic carbon chains and salts thereof chosen from alkali metal and alkaline earth metal salts and esters thereof;
- carboxylic acid amides;
- amino acid amides and esters;
- N-acylamino acid amides;

- diamides having hydrocarbon-based chains, each containing from 1 to 22 carbon atoms, optionally substituted with at least one substituent chosen from ester, urea and fluoro groups;

- steroid amines and amides and salts thereof;
- compounds comprising several aromatic rings;
- azobenzene steroids;
- organometallic compounds;
- surfactants in salt form comprising at least two chains chosen from linear and branched alkyl chains;

- benzylidene sorbitols and alditols and derivatives thereof;
- cyclodipeptides which are cyclic condensates of two amino acids;
- cyclic compounds and alkylene compounds comprising two urea or urethane groups;

- alkylaryl cyclohexanol derivatives;
- callixarenes; and
- associations of 2,4,6-tri-aminopyrimidine substituted by an alkyl chain and dialkyl barbituric acid.

144. (Previously presented) The composition according to claim 127, wherein said at least one organogelator is present in an amount ranging from 0.1% to 80% by weight relative to the total weight of the composition.

145. (Previously presented) The composition according to claim 127, wherein said at least one organogelator and/or said at least one structuring polymer have an

affinity with a chemical portion of one of the oils forming the liquid fatty phase of the composition so that hydrogen bonds with the oils are formed.

146. (Previously presented) The composition according to claim 127, further comprising at least one amphiphilic compound that is liquid and non-volatile at room temperature and has a hydrophilic/lipophilic balance value of less than 12.

147. (Previously presented) The composition according to claim 127, further comprising at least one additional rheological agent.

148. (Previously presented) The composition according to claim 127, further comprising at least one additional additive chosen from antioxidants, essential oils, preserving agents, fragrances, fillers, fatty compounds that are pasty at room temperature, neutralizing agents, gums, liposoluble polymers and polymers that are dispersible in a lipophilic medium, cosmetic and dermatological active agents, dispersants, and an aqueous phase comprising water that is optionally thickened or gelled with an aqueous-phase thickener or gelling agent and optionally water-miscible compounds.

149. (Previously presented) The composition according to claim 127, further comprising at least one coloring agent.

150. (Previously presented) The composition according to claim 127, wherein said composition further comprises at least one wax.

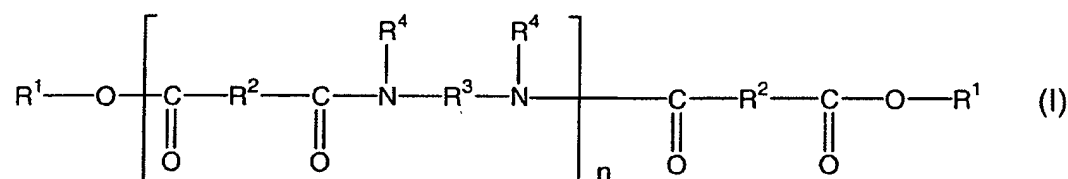
151. (Previously presented) The composition according to claim 127, wherein said composition comprises a mascara, an eyeliner, a foundation, a lipstick, a blusher, a make-up-removing product, a make-up product for the body, a nail composition, an

eyeshadow, a face powder, a concealer product, a shampoo, a conditioner, an antisen product, a care product for the skin, body, lips, hair or nails, or a deodorant product.

152. (Previously presented) The composition according to claim 127, wherein said composition comprises a care and/or treatment and/or make-up composition for keratin materials.

153. (Previously presented) A method for care, make-up, or treatment of keratin materials comprising applying to said keratin materials composition comprising at least one liquid fatty phase which comprises:

(i) at least one structuring polymer chosen from polyamide polymers of formula (I):



in which:

- n is an integer which represents the number of amide units such that the number of ester groups present in said at least one polyamide polymer ranges from 10% to 50% of the total number of all ester groups and all amide groups comprised in said at least one polyamide polymer;

- R¹, which are identical or different, are each chosen from alkyl groups comprising at least 4 carbon atoms and alkenyl groups comprising at least 4 carbon atoms;

- R^2 , which are identical or different, are each chosen from C_4 to C_{42}

hydrocarbon-based groups with the proviso that at least 50% of all R^2 are chosen from C_{30} to C_{42} hydrocarbon-based groups;

- R^3 , which are identical or different, are each chosen from organic groups comprising atoms chosen from carbon atoms, hydrogen atoms, oxygen atoms and nitrogen atoms with the proviso that R^3 comprises at least 2 carbon atoms; and

- R^4 , which are identical or different, are each chosen from hydrogen atoms, C_1 to C_{10} alkyl groups and a direct bond to at least one group chosen from R^3 and another R^4 such that when said at least one group is chosen from another R^4 , the nitrogen atom to which both R^3 and R^4 are bonded forms part of a heterocyclic structure defined in part by R^4-N-R^3 , with the proviso that at least 50% of all R^4 are chosen from hydrogen atoms; and

(ii) at least one organogelator.

154. (Previously presented) A composition comprising at least one liquid fatty phase which comprises:

(i) at least one structuring polymer comprising:

a polymer skeleton which comprises at least one hydrocarbon-based repeating unit comprising at least one hetero atom; and

(ii) trans-N, N'-bis (dodecanoyl)-1,2-diaminocyclohexane.

Barton, Wanda

From: Meeker, Courtney
Sent: Monday, August 14, 2006 3:22 PM
To: Barton, Wanda
Subject: PDF request
Attachments: pending claims 7_12_06.nrl

Wanda,

Could you make me a PDF of the attached claim set please.

FYI - We keep a set of all the current pending claims in the "polyamide cases" on Robert Stanley's drive (in Robert's folder on the T drive, there is a folder named "polyamide claims") because we submit copies of newly amended claims with each response. I thought Adrienne posted these claims after our July filing, but it looks like they aren't there.

Thanks

Courtney B. Meeker
Finnegan, Henderson, Farabow, Garrett, & Dunner LLP
901 New York Avenue, NW
Washington, DC 20001
phone: 202-408-4496
fax: 202-408-4400

8/14/2006

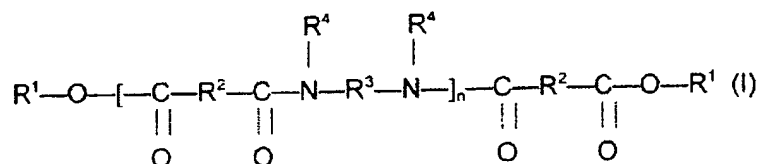
PENDING CLAIMS
Application No. 10/182,830
Attorney Docket No. 05725.0795-01000
Filed: August 2, 2002

1-137. (Canceled)

138. (Previously presented) A cosmetic composition comprising:

- (i) at least one liquid fatty phase structured by at least one polymer;
- (ii) at least one structuring polymer chosen from polymers of following

formula (I):



in which n is an integer which represents the number of amide units such that the number of ester groups present in said at least one structuring polymer ranges from 10% to 50% of the total number of all said ester groups and all said amide groups comprised in said at least one structuring polymer;

- R¹, which are identical or different, are each chosen from alkyl groups with at least 4 carbon atoms and alkenyl groups with at least 4 carbon atoms;

- R², which are identical or different, are each chosen from C₄ to C₄₂ hydrocarbon-based groups with the proviso that at least 50% of R² are chosen from C₃₀ to C₄₂ hydrocarbon-based groups;

- R^3 , which are identical or different, are each chosen from organic groups provided with at least 2 carbon atoms, with hydrogen atoms and optionally with one or more oxygen or nitrogen atoms; and

- R^4 , which are identical or different, are each chosen from hydrogen, C_1 to C_{10} alkyl groups, and direct bonds to R^3 or another R^4 , so that the nitrogen atom to which both R^3 and R^4 are bonded forms part of a heterocyclic structure defined by R^4-N-R^3 , with at least 50% of the R^4 groups representing a hydrogen atom; and

(iii) at least one organic solid substance having a melting point of about 45°C or greater.

139. (Previously presented) The cosmetic composition according to claim 138, wherein the at least one organic solid substance having a melting point of about 45°C or greater is chosen from waxes of natural origin, hydrogenated oils, waxes of synthetic origin, and silicone waxes.

140. (Previously presented) The cosmetic composition according to claim 139, wherein the waxes of natural origin are chosen from beeswax, carnauba wax, candelilla wax, ouricury wax, Japan wax, cork fiber wax, sugar cane wax, paraffin waxes, lignite wax, microcrystalline waxes, lanolin wax, montan wax, and ozokerites.

141. (Previously presented) The cosmetic composition according to claim 139, wherein the hydrogenated oil is hydrogenated jojoba oil.

142. (Previously presented) The composition according to claim 139, wherein the waxes of synthetic origin are chosen from polyethylene waxes derived from polymerization or copolymerization of ethylene, waxes obtained by Fischer-Tropsch synthesis, tetrastearate di-(trimethylol-1,1,1 propane), fatty acid esters, and glycerides.

143. (Previously presented) The composition according to claim 139, wherein the silicone waxes are chosen from derivatives of poly(di)methylsiloxane.

144. (Previously presented) The composition according to claim 143, wherein the derivatives of poly(di)methylsiloxane are chosen from esterified silicon waxes.

145. (Previously presented) The cosmetic composition according to claim 138, wherein at least one organic solid substance that has a melting point of about 45°C or greater is chosen from fillers.

146. (Previously presented) The cosmetic composition according to claim 145, wherein the fillers are chosen from powders, polyamides, and polymethylthacrylate crosspolymers.

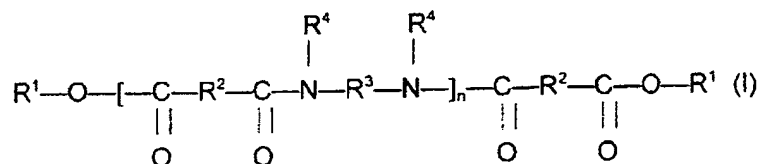
147. (Previously presented) The cosmetic composition according to claim 138, wherein the at least one organic solid substance that has a melting point of about 45°C or greater is chosen from solid polymers.

148. (Previously presented) The cosmetic composition according to claim 147, wherein the solid polymers are chosen from organic semi-crystallized polymers comprising a) a polymeric skeleton and b) at least one organic crystallizable side-chain or at least one organic crystallizable sequence which is a part of said skeleton.

149. (Previously presented) A cosmetic composition comprising:

- (i) at least one liquid fatty phase structured by at least one polymer;
- (ii) at least one structuring polymer chosen from polymers of following

formula (I):



in which n is an integer which represents the number of amide units such that the number of ester groups present in said at least one structuring polymer ranges from 10% to 50% of the total number of all said ester groups and all said amide groups comprised in said at least one structuring polymer;

- R¹, which are identical or different, are each chosen from alkyl groups with at least 4 carbon atoms and alkenyl groups with at least 4 carbon atoms;

- R², which are identical or different, are each chosen from C₄ to C₄₂ hydrocarbon-based groups with the proviso that at least 50% of R² are chosen from C₃₀ to C₄₂ hydrocarbon-based groups;

- R^3 , which are identical or different, are each chosen from organic groups provided with at least 2 carbon atoms, with hydrogen atoms and optionally with one or more oxygen or nitrogen atoms; and

- R^4 , which are identical or different, are each chosen from hydrogen, C_1 to C_{10} alkyl groups, and direct bonds to R^3 or another R^4 , so that the nitrogen atom to which both R^3 and R^4 are bonded forms part of a heterocyclic structure defined by R^4-N-R^3 , with at least 50% of the R^4 groups representing a hydrogen atom; and

(iii) at least one silica.

ISSUED CLAIMS

Application No. 10/198,931

Patent No. 7,008,629

Attorney Docket No. 05725.0896-00000

Filed July 22, 2002

ISSUED CLAIMS

Application No. 10/203,018

Patent No. 6,979,469

Attorney Docket No. 05725.0816-01000

Filed August 5, 2002

Pending Claims
Application No. 10/203,254
Attorney Docket No. 05725.0817-01000
Filed: October 2, 2006

1-125. (Cancelled)

126. (Currently amended) The composition according to claim 127, wherein the composition is anhydrous.

127. (Currently amended) A composition comprising at least one liquid fatty phase which comprises:

(i) at least one structuring polymer comprising:

a polymer skeleton which comprises at least one hydrocarbon-based repeating unit comprising at least one hetero atom,

wherein said at least one structuring polymer further comprises at least one of:

at least one terminal fatty chain chosen from alkyl chains and alkenyl chains, wherein said at least one terminal fatty chain is bonded to said polymer skeleton via at least one linking group; and

at least one pendant fatty chain chosen from alkyl chains and alkenyl chains, wherein said at least one pendant fatty chain is bonded to said polymer skeleton via at least one linking group; and

(ii) at least one gelling agent, with the proviso that said at least one gelling agent is not silica, methyl 12-hydroxystearate, 12-hydroxy stearic acid, or stearylalkonium hectorite;

with the proviso that said composition is not a deodorant product.

128. (Previously presented) The composition according to claim 127, wherein said at least one linking group is chosen from urea, ester, and amine groups.

129. (Currently amended) The composition according to claim 127, wherein said at least one structuring polymer has a weight-average molecular mass of less than 100,000.

130. (Currently amended) The composition according to claim 127, wherein said at least one structuring polymer is at least one polyamide polymer comprising a polymer skeleton which comprises at least one amide repeating unit.

131. (Currently amended) The composition according to claim 127, wherein said at least one liquid fatty phase of the composition comprises at least one polar oil and at least one apolar oil.

132. (Currently amended) The composition according to claim 127, wherein said at least one liquid fatty phase comprises at least one non-volatile oil.

133. (Previously presented) The composition according to claim 131, wherein said at least one fatty phase comprises at least one volatile solvent chosen from hydrocarbon-based solvents and silicone solvents optionally comprising alkyl or alkoxy groups that are pendant or at the end of the silicone chain.

134. (Currently amended) The composition according claim 127, wherein said at least one gelling agent is chosen from gelling agents in polymeric form and gelling agents in mineral form.

135. (Previously presented) The composition according to claim 134, wherein the at least one gelling agent is chosen from optionally modified clays, partially and totally crosslinked elastomeric polyorganosiloxanes, galactomannans comprising from 1

to 6 hydroxyl groups per saccharide, substituted with a saturated or unsaturated alkyl chain, ethylcellulose, and silicone gums and block copolymers.

136. (Currently amended) The composition according to claim 127, wherein said at least one gelling agent is in mineral form with particle sizes that cause little or no light scattering.

137. (Previously presented) The composition according to claim 136, wherein the at least one gelling agent is fumed silica.

138. (Currently amended) The composition according to claim 127, wherein said at least one gelling agent is present in an amount ranging from 0.05% to 35% by weight relative to the total weight of the composition.

139. (Currently amended) The composition according to claim 127, wherein said composition further comprises at least one amphiphilic compound that is liquid and non-volatile at room temperature and has a hydrophilic/lipophilic balance of less than 12.

140. (Currently amended) The composition according to claim 127, wherein said composition further comprises at least one coloring agent.

141. (Currently amended) The composition according to claim 127, wherein said composition further comprises at least one wax.

142. (Currently amended) The composition according to claim 127, wherein said composition further comprises at least one additional additive chosen from antioxidants, essential oils, preserving agents, fragrances, fillers, waxes, fatty compounds that are pasty at room temperature, neutralizing agents, gums, liposoluble polymers and polymers that are dispersible in a lipophilic medium, cosmetic and

dermatological active agents, dispersants, and an aqueous phase containing water that is optionally thickened or gelled with an aqueous-phase thickener or gelling agent and optionally water-miscible compounds.

143. (Currently amended) A mascara, an eyeliner, a foundation, a lipstick, a blusher, a make-up-removing product, a make-up product for the body, an eyeshadow, a face powder, a concealer product, a shampoo, a conditioner, an antisun product or a care product for the skin, lips, or hair comprising a composition comprising at least one liquid fatty phase in said mascara, eyeliner, foundation, lipstick, blusher, make-up-removing product, make-up product for the body, eyeshadow, face powder, concealer product, shampoo, conditioner, antisun product or care product for the lips, face, body, or hair which comprises:

(i) at least one structuring polymer comprising:

a polymer skeleton which comprises at least one hydrocarbon-based repeating unit comprising at least one hetero atom,

wherein said at least one structuring polymer further comprises at least one of:

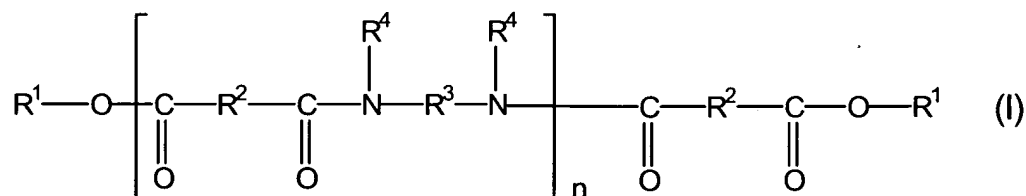
at least one terminal fatty chain chosen from alkyl chains and alkenyl chains, wherein said at least one terminal fatty chain is bonded to said polymer skeleton via at least one linking group,

at least one pendant fatty chain chosen from alkyl chains and alkenyl chains, wherein said at least one pendant fatty chain is bonded to said polymer skeleton via at least one linking group; and

(ii) at least one gelling agent, with the proviso that said at least one gelling agent is not silica, methyl 12-hydroxystearate, 12-hydroxy stearic acid, or stearalkonium hectorite;

with the proviso that said composition is not a deodorant product.

144. (Previously presented) The mascara, an eyeliner, a foundation, a lipstick, a blusher, a make-up-removing product, a make-up product for the body, an eyeshadow, a face powder, a concealer product, a shampoo, a conditioner, an antisun product or a care product for the skin, lips, or hair according to claim 143, wherein said at least one structuring polymer is chosen from polyamide polymers of formula (I):



in which:

- n is an integer which represents the number of amide units such that the number of ester groups present in said at least one polyamide polymer ranges from 10% to 50% of the total number of all ester groups and all amide groups comprised in said at least one polyamide polymer;

- R¹, which are identical or different, are each chosen from alkyl groups comprising at least 4 carbon atoms and alkenyl groups comprising at least 4 carbon atoms;

- R², which are identical or different, are each chosen from C₄ to C₄₂ hydrocarbon-based groups with the proviso that at least 50% of all R² are chosen from C₃₀ to C₄₂ hydrocarbon-based groups;

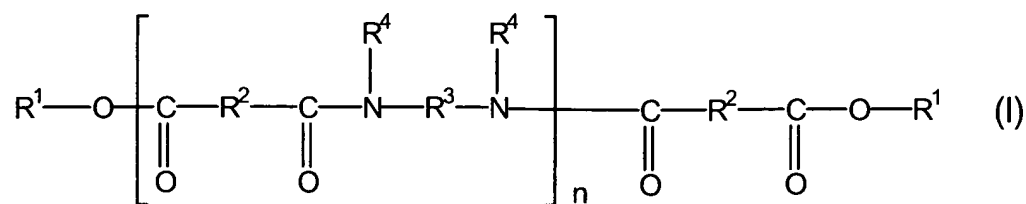
- R^3 , which are identical or different, are each chosen from organic groups comprising atoms chosen from carbon atoms, hydrogen atoms, oxygen atoms and nitrogen atoms with the proviso that R^3 comprises at least 2 carbon atoms; and

- R^4 , which are identical or different, are each chosen from hydrogen atoms, C_1 to C_{10} alkyl groups and a direct bond to at least one group chosen from R^3 and another R^4 such that when said at least one group is chosen from another R^4 , the nitrogen atom to which both R^3 and R^4 are bonded forms part of a heterocyclic structure defined in part by R^4-N-R^3 , with the proviso that at least 50% of all R^4 are chosen from hydrogen atoms.

145. (Previously presented) The mascara, an eyeliner, a foundation, a lipstick, a blusher, a make-up-removing product, a make-up product for the body, an eyeshadow, a face powder, a concealer product, a shampoo, a conditioner, an antisen product or a care product for the skin, lips, or hair according to claim 143, wherein said at least one structuring polymer is chosen from ethylenediamine/stearyl dimer tallate copolymer.

146. (Previously presented) The mascara, an eyeliner, a foundation, a lipstick, a blusher, a make-up-removing product, a make-up product for the body, an eyeshadow, a face powder, a concealer product, a shampoo, a conditioner, an antisen product or a care product for the skin, lips, or hair according to claim 143, wherein said at least one structuring polymer is chosen from ethylenediamine/stearyl dimer dilinoleate copolymer.

147. (Currently amended) The composition according to claim 127, wherein said at least one structuring polymer is chosen from polyamide polymers of formula (I):



in which:

- n is an integer which represents the number of amide units such that the number of ester groups present in said at least one polyamide polymer ranges from 10% to 50% of the total number of all ester groups and all amide groups comprised in said at least one polyamide polymer;

- R^1 , which are identical or different, are each chosen from alkyl groups comprising at least 4 carbon atoms and alkenyl groups comprising at least 4 carbon atoms;

- R^2 , which are identical or different, are each chosen from C_4 to C_{42} hydrocarbon-based groups with the proviso that at least 50% of all R^2 are chosen from C_{30} to C_{42} hydrocarbon-based groups;

- R^3 , which are identical or different, are each chosen from organic groups comprising atoms chosen from carbon atoms, hydrogen atoms, oxygen atoms and nitrogen atoms with the proviso that R^3 comprises at least 2 carbon atoms; and

- R^4 , which are identical or different, are each chosen from hydrogen atoms, C_1 to C_{10} alkyl groups and a direct bond to at least one group chosen from R^3 and another R^4 such that when said at least one group is chosen from another R^4 , the nitrogen atom to which both R^3 and R^4 are bonded forms part of a heterocyclic structure defined in part by R^4-N-R^3 , with the proviso that at least 50% of all R^4 are chosen from hydrogen atoms.

148. (Previously presented) The composition according to claim 147, wherein in said formula (I), n is an integer ranging from 1 to 5.

149. (Previously presented) The composition according to claim 147, wherein said R^1 , which are identical or different, are chosen from C_{12} to C_{22} alkyl groups.

150. (Previously presented) The composition according to claim 147, wherein said R^2 , which are identical or different, are each chosen from C_{10} to C_{42} hydrocarbon based groups with the proviso that at least 50% of all R^2 are chosen from C_{30} to C_{42} hydrocarbon based groups.

151. (Previously presented) The composition according to claim 147 wherein in said R^3 , which can be identical or different, are each chosen from C_2 to C_{36} hydrocarbon-based groups and polyoxyalkylene groups.

152. (Previously presented) The composition according to claim 147, wherein in said R^4 , which can be identical or different, are each chosen from hydrogen atoms.

153. (Currently amended) The composition according to claim 127, wherein said at least one structuring polymer is chosen from ethylenediamine/stearyl dimer tallate copolymer.

154. (Currently amended) The composition according to claim 127, wherein said at least one structuring polymer is chosen from ethylenediamine/stearyl dimer dilinoleate copolymer.

155. (Currently amended) A care and/or treatment and/or make-up composition for keratinous fibers, lips or skin comprising at least one liquid fatty phase in said care and/or treatment and/or make-up composition for keratinous fibers, lips or skin which comprises:

(i) at least one structuring polymer comprising:

a polymer skeleton which comprises at least one hydrocarbon-based repeating unit comprising at least one hetero atom,

wherein said at least one structuring polymer further comprises at least one of:

at least one terminal fatty chain chosen from alkyl chains and alkenyl chains, wherein said at least one terminal fatty chain is bonded to said polymer skeleton via at least one linking group,

at least one pendant fatty chain chosen from alkyl chains and alkenyl chains, wherein said at least one pendant fatty chain is bonded to said polymer skeleton via at least one linking group; and

(ii) at least one gelling agent;

with the proviso that the composition is not a deodorant product.

156. (Previously presented) A care and/or treatment and/or make-up composition according to claim 155, wherein said at least one structuring polymer is chosen from ethylenediamine/stearyl dimer tallate copolymer.

157. (Previously presented) A care and/or treatment and/or make-up composition according to claim 155, wherein said at least one structuring polymer is chosen from ethylenediamine/stearyl dimer dilinoleate copolymer.

158. (Currently amended) A method for care, make-up or treatment of keratin materials comprising applying to said keratin materials a composition comprising at least one liquid fatty phase which comprises:

(i) at least one structuring polymer comprising:

a polymer skeleton which comprises at least one hydrocarbon-based repeating unit comprising at least one hetero atom; ~~and~~,

wherein said at least one structuring polymer further comprises at least one of:

at least one terminal fatty chain chosen from alkyl chains and alkenyl chains, wherein said at least one terminal fatty chain is bonded to said polymer skeleton via at least one linking group,

at least one pendant fatty chain chosen from alkyl chains and alkenyl chains, wherein said at least one pendant fatty chain is bonded to said polymer skeleton via at least one linking group; and

(ii) at least one gelling agent;

with the proviso that the composition is not a deodorant product.

159. (Previously presented) The method according to claim 158, wherein said at least one structuring polymer is chosen from ethylenediamine/stearyl dimer tallate copolymer.

160. (Previously presented) The method according to claim 158, wherein said at least one structuring polymer is chosen from ethylenediamine/stearyl dimer dilinoleate copolymer.

ISSUED CLAIMS

Application No. 10/203,374

Patent No. 7,023,552

Attorney Docket No. 06028.0019-00000

Filed August 9, 2002

ISSUED CLAIMS

Application No. 10/203,375

Patent No. 7,030,985

Attorney Docket No. 06028.0018-00000

Filed August 9, 2002

ISSUED CLAIMS

Application No. 10/413,217

Patent No. 7,008,619

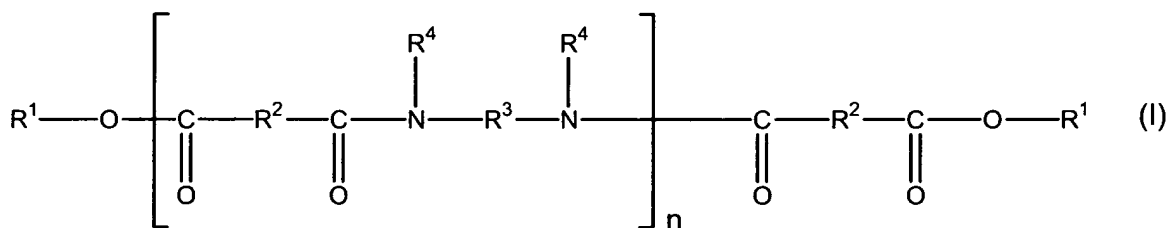
Attorney Docket No. 05725.0895-01000

Filed April 15, 2003

PENDING CLAIMS
Applicant No. 10/450,108
Attorney Docket No. 05725.1198-00000
Filed: June 11, 2003

1-61. (Canceled).

62. A composition comprising, in a physiologically acceptable medium comprising at least one fatty phase,
at least one fiber; and
at least one first polymer chosen from polymers of formula (I) below:



wherein:

- n is a number of amide units such that the number of ester groups represents from 10% to 50% of the total number of the ester groups and of the amide groups in the at least one first polymer;

- R¹, which may be identical or different, is chosen from alkyl and alkenyl groups comprising at least 4 carbon atoms;

- R², which may be identical or different, is chosen from C₄ to C₄₂ hydrocarbon-based groups, provided that 50% of the groups R² are chosen from C₃₀ to C₄₂ hydrocarbon-based groups;

- R³, which may be identical or different, is chosen from organic groups comprising at least 2 carbon atoms, hydrogen atoms, and optionally at least one atom chosen from oxygen and nitrogen atoms; and

- R⁴, which may be identical or different, is chosen from a hydrogen atom, C₁ to C₁₀ alkyl groups, a direct bond to R³, and a direct bond to another R⁴, such that the nitrogen atom to which R³ and R⁴ are both attached forms part of a heterocyclic structure defined by R⁴-N-R³, wherein at least 50% of the groups R⁴ are hydrogen atoms.

63. The composition according to Claim 62, wherein, in the formula (I), R¹, which may be identical or different, is chosen from C₁₂ to C₂₂ alkyl groups.

64. The composition according to Claim 62, wherein, in the formula (I), R², which may be identical or different, is chosen from C₃₀ to C₄₂ hydrocarbon-based groups.

65. The composition according to Claim 62, wherein the at least one first polymer is present in an amount ranging from 0.01% to 10% by weight, relative to the total weight of the composition.

66. The composition according to Claim 62, wherein the at least one fiber is chosen from silk, cotton, wool, and flax fibers; cellulose fibers; polyamide, cork, sugar cane, rayon and viscose fibers; acetate fibers; poly-(p-phenyleneterephthalamide) fibers; acrylic polymer fibers; polyolefin fibers; glass, silica, and carbon fibers; polytetrafluoroethylene, insoluble collagen, polyester, polyvinyl chloride and polyvinylidene chloride; polyvinyl alcohol, polyacrylonitrile, chitosan, polyurethane and

polyethylene phthalate fibers; fibers formed from mixtures of polymers; and surgical fibers.

67. The composition according to Claim 66, wherein the cellulose fibers are chosen from those extracted from wood, plants, and algae.

68. The composition according to Claim 66, wherein the acetate fibers are chosen from rayon acetate, cellulose acetate, and silk acetate fibers.

69. The composition according to Claim 66, wherein the acrylic polymer fibers are chosen from polymethyl methacrylate and poly-2-hydroxyethyl methacrylate fibers.

70. The composition according to Claim 66, wherein the polyolefin fibers are chosen from polyethylene and polypropylene fibers.

71. The composition according to Claim 66, wherein the carbon fibers are in graphite form.

72. The composition according to Claim 62, wherein the at least one fiber is chosen from fibers of synthetic origin.

73. The composition according to Claim 62, wherein the at least one fiber comprises at least one chemical group chosen from groups of the same chemical nature as that of the units of the at least one first polymer and groups capable of forming physical bonds of the same type as that of the units of the at least one first polymer.

74. The composition according to Claim 62, wherein the at least one fiber is chosen from hydrophobic-treated fibers.

75. The composition according to Claim 62, wherein the at least one fiber is chosen from polyamide fibers and poly-(p-phenyleneterephthamide) fibers.

76. The composition according to Claim 62, wherein the at least one fiber has a length L and a diameter D such that L/D ranges from 1.5 to 2500.

77. The composition according to Claim 62, wherein the at least one fiber has a length ranging from 1 nm to 20 mm.

78. The composition according to Claim 62, wherein the at least one fiber is present in an amount ranging from 0.1% to 40% by weight, relative to the total weight of the composition.

79. The composition according to Claim 62, further comprising at least one wax.

80. The composition according to Claim 62, further comprising at least one volatile oil.

81. The composition according to Claim 62, further comprising at least one organic solvent.

82. The composition according to Claim 62, further comprising at least one non-volatile oil.

83. The composition according to Claim 62, wherein the at least one fatty phase is present in an amount ranging from 2% to 98% by weight, relative to the total weight of the composition.

84. The composition according to Claim 62, further comprising at least one aqueous phase.

85. The composition according to Claim 62, further comprising at least one second film-forming polymer which is different from the at least one first polymer.

86. The composition according to Claim 85, wherein the at least one second film-forming polymer is chosen from vinyl polymers, polyurethanes, polyesters, polyamides, polyureas and cellulose polymers.

87. The composition according to Claim 62, further comprising at least one dyestuff.

88. The composition according to Claim 62, further comprising at least one additive chosen from water, antioxidants, fillers, preserving agents, fragrances, neutralizing agents, thickeners, and cosmetic and dermatological active agents.

89. The composition according to Claim 62, wherein the composition is provided in a form chosen from mascaras, eyeliners, products for eyebrows, products for lips, face powders, eyeshadows, foundations, make-up products for a body, concealer products, nail varnishes, skincare products and haircare products.

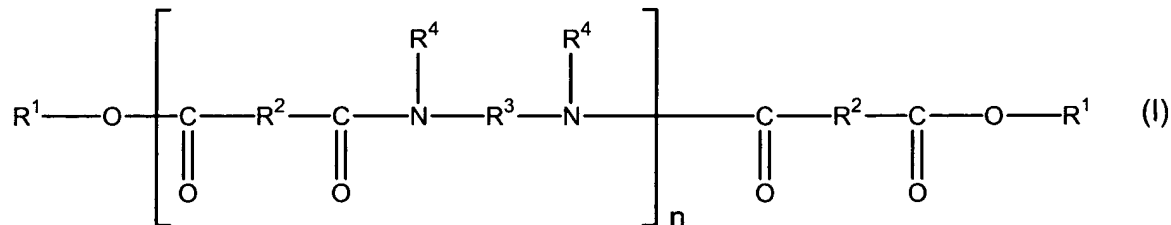
90. The composition according to Claim 62, wherein the at least one first polymer is chosen from ethylenediamine/stearyl dimer tallate copolymer.

91. The composition according to Claim 62, wherein the at least one first polymer is chosen from ethylenediamine/stearyl dimer dilinoleate copolymer.

92. A mascara comprising, in a physiologically acceptable medium comprising at least one fatty phase,

at least one fiber; and

at least one first polymer chosen from polymers of formula (I) below:



wherein:

- n is a number of amide units such that the number of ester groups represents from 10% to 50% of the total number of the ester groups and of the amide groups in the at least one first polymer;

- R¹, which may be identical or different, is chosen from alkyl and alkenyl groups comprising at least 4 carbon atoms;

- R², which may be identical or different, is chosen from C₄ to C₄₂ hydrocarbon-based groups, provided that 50% of the groups R² are chosen from C₃₀ to C₄₂ hydrocarbon-based groups;

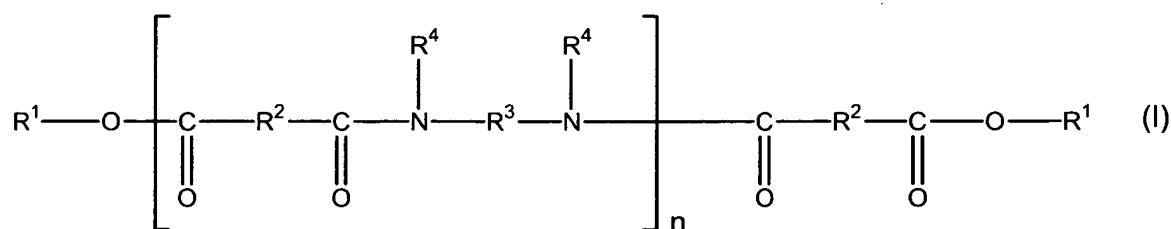
- R³, which may be identical or different, is chosen from organic groups comprising at least 2 carbon atoms, hydrogen atoms, and optionally at least one atom chosen from oxygen and nitrogen atoms; and

- R⁴, which may be identical or different, is chosen from a hydrogen atom, C₁ to C₁₀ alkyl groups, a direct bond to R³, and a direct bond to another R⁴, such that the nitrogen atom to which R³ and R⁴ are both attached forms part of a heterocyclic structure defined by R⁴-N-R³, wherein at least 50% of the groups R⁴ are hydrogen atoms.

93. A cosmetic process for making up and/or caring for a keratin material of a human being, comprising applying to the keratin material a composition comprising, in a physiologically acceptable medium comprising at least one fatty phase,

at least one fiber; and

at least one first polymer chosen from polymers of formula (I) below:



wherein:

- n is a number of amide units such that the number of ester groups represents from 10% to 50% of the total number of the ester groups and of the amide groups in the at least one first polymer;

- R¹, which may be identical or different, is chosen from alkyl and alkenyl groups comprising at least 4 carbon atoms;

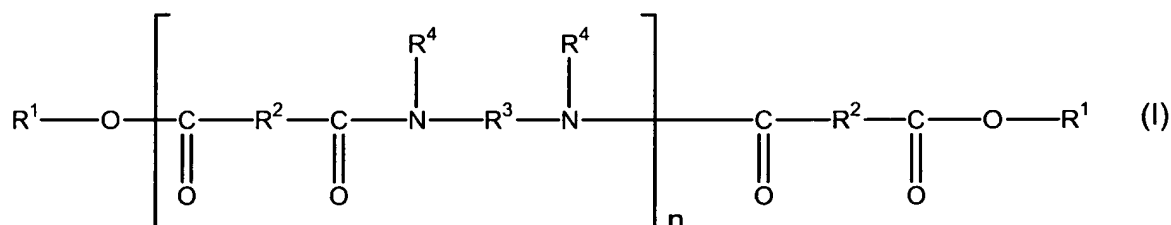
- R², which may be identical or different, is chosen from C₄ to C₄₂ hydrocarbon-based groups, provided that 50% of the groups R² are chosen from C₃₀ to C₄₂ hydrocarbon-based groups;

- R³, which may be identical or different, is chosen from organic groups comprising at least 2 carbon atoms, hydrogen atoms, and optionally at least one atom chosen from oxygen and nitrogen atoms; and

- R⁴, which may be identical or different, is chosen from a hydrogen atom, C₁ to C₁₀ alkyl groups, a direct bond to R³, and a direct bond to another R⁴, such that the

nitrogen atom to which R^3 and R^4 are both attached forms part of a heterocyclic structure defined by R^4-N-R^3 , wherein at least 50% of the groups R^4 are hydrogen atoms.

94. A method for obtaining a deposit which adheres to a keratin material comprising applying to the keratin material a composition comprising, in a physiologically acceptable medium comprising at least one fatty phase,
at least one fiber; and
at least one first polymer chosen from polymers of formula (I) below:



wherein:

- n is a number of amide units such that the number of ester groups represents from 10% to 50% of the total number of the ester groups and of the amide groups in the at least one first polymer;

- R^1 , which may be identical or different, is chosen from alkyl and alkenyl groups comprising at least 4 carbon atoms;

- R^2 , which may be identical or different, is chosen from C_4 to C_{42} hydrocarbon-based groups, provided that 50% of the groups R^2 are chosen from C_{30} to C_{42} hydrocarbon-based groups;

- R³, which may be identical or different, is chosen from organic groups comprising at least 2 carbon atoms, hydrogen atoms, and optionally at least one atom chosen from oxygen and nitrogen atoms; and

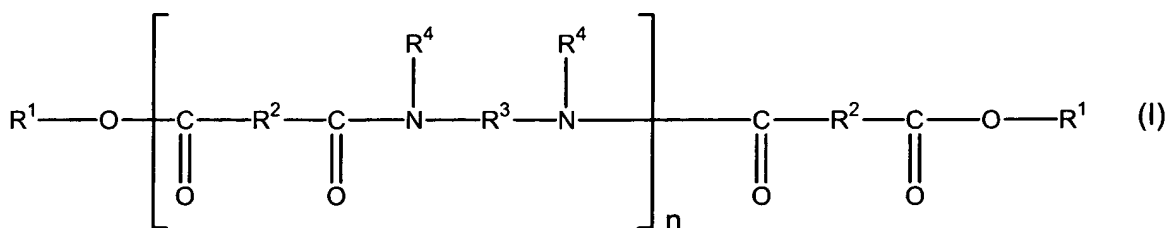
- R⁴, which may be identical or different, is chosen from a hydrogen atom, C₁ to C₁₀ alkyl groups, a direct bond to R³, and a direct bond to another R⁴, such that the nitrogen atom to which R³ and R⁴ are both attached forms part of a heterocyclic structure defined by R⁴-N-R³, wherein at least 50% of the groups R⁴ are hydrogen atoms.

wherein said composition is applied in an amount effective for obtaining a deposit which adheres to the keratin material.

95. A method for thickening and/or lengthening eyelashes comprising applying to the eyelashes a mascara comprising, in a physiologically acceptable medium comprising at least one fatty phase,

at least one fiber; and

at least one first polymer chosen from polymers of formula (I) below:



wherein:

- n is a number of amide units such that the number of ester groups represents from 10% to 50% of the total number of the ester groups and of the amide groups in the at least one first polymer;

- R^1 , which may be identical or different, is chosen from alkyl and alkenyl groups comprising at least 4 carbon atoms;

- R^2 , which may be identical or different, is chosen from C_4 to C_{42} hydrocarbon-based groups, provided that 50% of the groups R^2 are chosen from C_{30} to C_{42} hydrocarbon-based groups;

- R^3 , which may be identical or different, is chosen from organic groups comprising at least 2 carbon atoms, hydrogen atoms, and optionally at least one atom chosen from oxygen and nitrogen atoms; and

- R^4 , which may be identical or different, is chosen from a hydrogen atom, C_1 to C_{10} alkyl groups, a direct bond to R^3 , and a direct bond to another R^4 , such that the nitrogen atom to which R^3 and R^4 are both attached forms part of a heterocyclic structure defined by R^4-N-R^3 , wherein at least 50% of the groups R^4 are hydrogen atoms.

PENDING CLAIMS
Application No. 10/459,636
Attorney Docket No. 05725.1336-00000
Filed: June 12, 2003

1. A composition in the form of an emulsion comprising at least one liquid fatty phase which comprises:
 - (i) at least one structuring polymer comprising:
a polymer skeleton which comprises at least one hydrocarbon-based repeating unit comprising at least one hetero atom; and
 - (ii) at least one sunscreen agent.
2. The composition according to claim 1, wherein said at least one structuring polymer further comprises at least one of:

at least one terminal fatty chain chosen from alkyl chains and alkenyl chains, wherein said at least one terminal fatty chain is bonded to said polymer skeleton via at least one linking group; and

at least one pendant fatty chain chosen from alkyl chains and alkenyl chains, wherein said at least one pendant fatty chain is bonded to said polymer skeleton via at least one linking group.
3. The composition according to claim 2, wherein said alkyl chains and said alkenyl chains each comprise at least four carbon atoms.
4. The composition according to claim 3, wherein said alkyl chains and said alkenyl chains each comprise from 8 to 120 carbon atoms.
5. The composition according to claim 4, wherein said alkyl chains and said alkenyl chains each comprise from 12 to 68 carbon atoms.

6. The composition according to claim 2, wherein said at least one linking group is chosen from single bonds and urea, urethane, thiourea, thiourethane, thioether, thioester, ester, ether and amine groups.

7. The composition according to claim 6, wherein said at least one linking group is an ester group present in a proportion ranging from 15% to 40% of the total number of all ester and hetero atom groups in the at least one structuring polymer.

8. The composition according to claim 7, wherein said at least one linking group is an ester group present in a proportion ranging from 20% to 35% of the total number of all ester and hetero atom groups in the at least one structuring polymer.

9. The composition according to claim 2, wherein said at least one terminal fatty chain is functionalized.

10. The composition according to claim 2, wherein said at least one pendant fatty chain is functionalized.

11. The composition according to claim 2, wherein in said at least one structuring polymer, the percentage of the total number of fatty chains ranges from 40% to 98% relative to the total number of all repeating units and fatty chains in the at least one structuring polymer.

12. The composition according to claim 11, wherein in said at least one structuring polymer, the percentage of the total number of fatty chains ranges from 50% to 95% relative to the total number of all repeating units and fatty chains in the at least one structuring polymer.

13. The composition according to claim 1, wherein said at least one structuring polymer has a weight-average molecular mass of less than 100,000.

14. The composition according to claim 13, wherein said at least one structuring polymer has a weight-average molecular mass of less than 50,000.

15. The composition according to claim 14, wherein said at least one structuring polymer has a weight-average molecular mass ranging from 1000 to 30,000.

16. The composition according to claim 15, wherein said at least one structuring polymer has a weight-average molecular mass ranging from 2000 to 20,000.

17. The composition according to claim 16, wherein said at least one structuring polymer has a weight-average molecular mass ranging from 2000 to 10,000.

18. The composition according to claim 1, wherein said at least one hydrocarbon based repeating unit comprises from 2 to 80 carbon atoms.

19. The composition according to claim 18, wherein said at least one hydrocarbon based repeating unit comprises from 2 to 60 carbon atoms.

20. The composition according to claim 1, wherein said at least one hydrocarbon based repeating unit is chosen from saturated and unsaturated hydrocarbon-based units which are chosen from linear hydrocarbon-based repeating units, branched hydrocarbon-based repeating units and cyclic hydrocarbon-based repeating units.

21. The composition according to claim 1, wherein said at least one hetero atom of said at least one hydrocarbon-based repeating unit is chosen from nitrogen, sulphur, and phosphorus.

22. The composition according to claim 21, wherein said at least one hetero atom is a nitrogen atom.

23. The composition according to claim 21, wherein said at least one hetero atom is combined with at least one atom chosen from oxygen and carbon to form a hetero atom group.

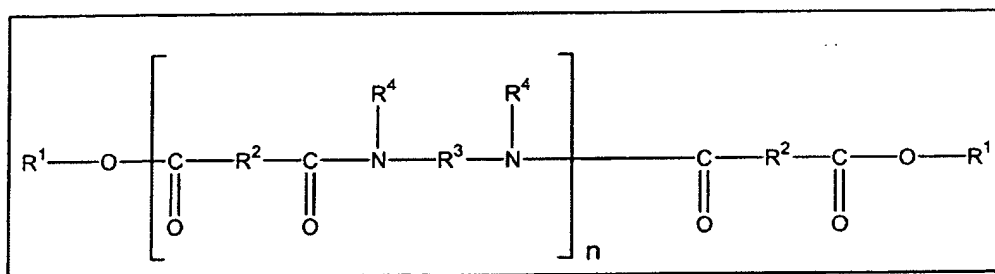
24. The composition according to claim 23, wherein said at least one hetero atom group further comprises a carbonyl group.

25. The composition according to claim 23, wherein said at least one hetero atom group is chosen from amide groups, carbamate groups, and urea groups.

26. The composition according to claim 25, wherein said at least one hetero atom group is an amide group and said polymer skeleton is a polyamide skeleton.

27. The composition according to claim 25, wherein said at least one hetero atom group is chosen from carbamate groups and urea groups and said polymer skeleton is chosen from a polyurethane skeleton, a polyurea skeleton and a polyurethane-polyurea skeleton.

28. The composition according to claim 1, wherein said at least one structuring polymer is chosen from polyamide polymers of formula (I):



in which:

- n is an integer which represents the number of amide units such that the number of ester groups present in said at least one polyamide polymer ranges from 10% to 50% of the total number of all ester groups and all amide groups comprised in said at least one polyamide polymer;
- R^1 , which are identical or different, are each chosen from alkyl groups comprising at least 4 carbon atoms and alkenyl groups comprising at least 4 carbon atoms;
- R^2 , which are identical or different, are each chosen from C_4 to C_{42} hydrocarbon-based groups with the proviso that at least 50% of all R^2 are chosen from C_{30} to C_{42} hydrocarbon-based groups;
- R^3 , which are identical or different, are each chosen from organic groups comprising atoms chosen from carbon atoms, hydrogen atoms, oxygen atoms and nitrogen atoms, with the proviso that R^3 comprises at least 2 carbon atoms; and
- R^4 , which are identical or different, are each chosen from hydrogen atoms, C_1 to C_{10} alkyl groups and a direct bond to at least one group chosen from R^3 and another R^4 such that when said at least one group is chosen from another R^4 , the nitrogen atom to which both R^3 and R^4 are bonded forms part of a heterocyclic structure defined in part by R^4-N-R^3 , with the proviso that at least 50% of all R^4 are chosen from hydrogen atoms.

29. The composition according to claim 28, wherein in said formula (I), n is an integer ranging from 1 to 5.

30. The composition according to claim 29, wherein in said formula (I), n is an integer ranging from 3 to 5.

31. The composition according to claim 28, wherein in said formula (I), said alkyl groups of R^1 and said alkenyl groups of R^1 each independently comprise from 4 to 24 carbon atoms.

32. The composition according to claim 31, wherein in said formula (I), R^1 , which are identical or different, are each chosen from C_{12} to C_{22} alkyl groups.

33. The composition according to claim 32; wherein in said formula (I), R^1 , which are identical or different, are each chosen from C_{16} to C_{22} alkyl groups.

34. The composition according to claim 28, wherein in said formula (I), R^2 , which are identical or different, are each chosen from C_{10} to C_{42} hydrocarbon based groups with the proviso that at least 50% of all R^2 are chosen from C_{30} to C_{42} hydrocarbon based groups.

35. The composition according to claim 34, wherein at least 75% of all R^2 , which are identical or different, are chosen from C_{30} to C_{42} hydrocarbon based groups.

36. The composition according to claim 28, wherein in said formula (I), R^3 , which can be identical or different, are each chosen from C_2 to C_{36} hydrocarbon-based groups and polyoxyalkylene groups.

37. The composition according to claim 36, wherein R^3 , which can be identical or different, are each chosen from C_2 to C_{12} hydrocarbon-based groups.

38. The composition according to claim 37, wherein in said formula (I), R^4 , which can be identical or different, are each chosen from hydrogen atoms.

39. The composition according to claim 28, wherein said at least one polymer of formula (I) is in the form of a mixture of polymers, wherein said mixture optionally also comprises a compound of formula (I) wherein n is equal to zero.

40. The composition according to claim 1, wherein said at least one structuring polymer has a softening point greater than 50 EC.

41. The composition according to claim 40, wherein said at least one structuring polymer has a softening point ranging from 65 EC to 190 EC.

42. The composition according to claim 41, wherein said at least one structuring polymer has a softening point ranging from 70 EC to 130 EC.

43. The composition according to claim 42, wherein said at least one structuring polymer has a softening point ranging from 80 EC to 105 EC.

44. The composition according to claim 1, wherein said at least one structuring polymer is present in the composition in an amount ranging from 0.5% to 80% by weight relative to the total weight of the composition.

45. The composition according to claim 44, wherein said at least one structuring polymer is present in the composition in an amount ranging from 2% to 60% by weight relative to the total weight of the composition.

46. The composition according to claim 45, wherein said at least one structuring polymer is present in the composition in an amount ranging from 5% to 40% by weight relative to the total weight of the composition.

47. The composition according to claim 1, wherein said at least one liquid fatty phase of the composition comprises at least one oil.

48. The composition according to claim 47, wherein said at least one oil is chosen from at least one polar oil and at least one apolar oil.

49. The composition according to claim 48, wherein said at least one polar oil is chosen from:

- hydrocarbon-based plant oils with a high content of triglycerides comprising fatty acid esters of glycerol in which the fatty acids comprise chains having from 4 to 24 carbon atoms, said chains optionally being chosen from linear and branched, and saturated and unsaturated chains;

- synthetic oils or esters of formula R_5COOR_6 in which R_5 is chosen from linear and branched fatty acid residues comprising from 1 to 40 carbon atoms and $R_5+R_6 \geq 10$;

- synthetic ethers containing from 10 to 40 carbon atoms;

- C_8 to C_{26} fatty alcohols; and

- C_8 to C_{26} fatty acids.

50. The composition according to claim 48, wherein said at least one apolar oil is chosen from:

- silicone oils chosen from volatile and non-volatile, linear and cyclic polydimethylsiloxanes that are liquid at room temperature;

- polydimethylsiloxanes comprising alkyl or alkoxy groups which are pendant and/or at the end of the silicone chain, the groups each containing from 2 to 24 carbon atoms;

- phenylsilicones; and

- hydrocarbons chosen from linear and branched, volatile and non-volatile hydrocarbons of synthetic and mineral origin.

51. The composition according to claim 1, wherein said at least one liquid fatty phase comprises at least one non-volatile oil.

52. The composition according to claim 51, wherein said at least one non-volatile oil is chosen from hydrocarbon-based oils of mineral, plant and synthetic origin, synthetic esters and ethers, and silicone oils.

53. The composition according to claim 1, wherein said at least one liquid fatty phase is present in an amount ranging from 1% to 99% by weight relative to the total weight of the composition.

54. The composition according to claim 53, wherein said at least one liquid fatty phase is present in an amount ranging from 5% to 95.5% by weight relative to the total weight of the composition.

55. The composition according to claim 53, wherein said at least one liquid fatty phase is present in an amount ranging from 10% to 80% by weight relative to the total weight of the composition.

56. The composition according to claim 53, wherein said at least one liquid fatty phase is present in an amount ranging from 20% to 75% by weight relative to the total weight of the composition.

57. The composition according to claim 1, wherein said at least one liquid fatty phase comprises at least one volatile solvent chosen from hydrocarbon-based solvents and silicone solvents optionally comprising alkyl or alkoxy groups that are pendant or at the end of a silicone chain.

58. The composition according to claim 57, wherein said at least one volatile solvent is present in an amount up to 95.5% relative to the total weight of the composition.

59. The composition according to claim 58, wherein said at least one volatile solvent is present in an amount ranging from 2% to 75% relative to the total weight of the composition.

60. The composition according to claim 59, wherein said at least one volatile solvent is present in an amount ranging from 10% to 45% relative to the total weight of the composition.

61. The composition according to claim I, wherein said composition further comprises at least one additional fatty material.

62. The composition according to claim 61; wherein said at least one additional fatty material is chosen from gums, fatty materials pasty at ambient temperature, and resins.

63. The composition according to claim I further comprising at least one film forming polymer.

64. The composition according to claim 1, wherein said film-forming polymer is present in the composition in an amount ranging from 0.1% to 20% by weight relative to the total weight of the composition.

65. The composition according to claim I, wherein the composition is in a form chosen from a fluid simple emulsion, rigid simple emulsion, fluid multiple emulsion, and rigid multiple emulsion.

66. The composition according to claim 1, wherein said composition is a solid.

67. The composition according to claim 66, wherein said composition is a solid chosen from molded and poured sticks.

68. A composition in the form of an emulsion comprising at least one liquid fatty phase which comprises:

(i) at least one structuring polymer, wherein said at least one structuring polymer is at least one polyamide polymer comprising:

a polymer skeleton which comprises at least one amide repeating unit; and
(ii) at least one sunscreen agent.

69. The composition according to claim 68, wherein said at least one polyamide polymer further comprises at least one of:

at least one terminal fatty chain chosen from alkyl chains and alkenyl chains, wherein said at least one terminal fatty chain is bonded to said polymer skeleton via at least one linking group; and

at least one pendant fatty chain chosen from alkyl chains and alkenyl chains, wherein said at least one pendant fatty chain is bonded to said polymer skeleton via at least one linking group.

70. The composition according to claim 69, wherein said alkyl chains and said alkenyl chains each comprise at least four carbon atoms.

71. The composition according to claim 70, wherein said alkyl chains and said alkenyl chains each comprise from 8 to 120 carbon atoms.

72. The composition according to claim 71, wherein said alkyl chains and said alkenyl chains each comprise from 12 to 68 carbon atoms.

73. The composition according to claim 69, wherein said at least one linking group is chosen from single bonds and urea, urethane, thiourea, thiourethane, thioether, thioester, ester, ether and amine groups.

74. The composition according to claim 73, wherein said at least one linking group is an ester group present in a proportion ranging from 15% to 40% of the total number of all ester and amide groups in the at least one polyamide polymer.

75. The composition according to claim 74, wherein said at least one linking group is an ester group present in a proportion ranging from 20% to 35% of the total number of all ester and amide groups in the at least one polyamide polymer.

76. The composition according to claim 69, wherein said at least one terminal fatty chain is functionalized.

77. The composition according to claim 69, wherein said at least one pendant fatty chain is functionalized.

78. The composition according to claim 69, wherein in said at least one polyamide polymer, the percentage of the total number of fatty chains ranges from 40% to 98% relative to the total number of all amide units and fatty chains in the at least one polyamide polymer.

79. The composition according to claim 78, wherein in said at least one polyamide polymer, the percentage of the total number of fatty chains ranges from 50% to 95% relative to the total number of all amide units and fatty chains in the at least one polyamide polymer.

80. The composition according to claim 68, wherein said at least one polyamide polymer has a weight-average molecular mass of less than 100,000.

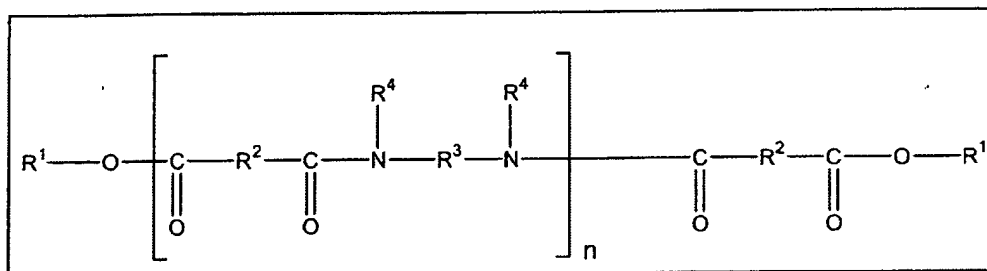
81. The composition according to claim 80, wherein said at least one polyamide polymer has a weight-average molecular mass of less than 50,000.

82. The composition according to claim 81, wherein said at least one polyamide polymer has a weight-average molecular mass ranging from 1000 to 30,000.

83. The composition according to claim 82, wherein said at least one polyamide polymer has a weight-average molecular mass ranging from 2000 to 20,000.

84. The composition according to claim 83, wherein said at least one polyamide polymer has a weight-average molecular mass ranging from 2000 to 10,000.

85. The composition according to claim 68, wherein said at least one polyamide polymer is chosen from polyamide polymers of formula (I):



in which:

- n is an integer which represents the number of amide units such that the number of ester groups present in said at least one polyamide polymer ranges from 10% to 50% of the total number of all ester groups and all amide groups comprised in said at least one polyamide polymer;
- R¹, which are identical or different, are each chosen from alkyl groups comprising at least 4 carbon atoms and alkenyl groups comprising at least 4 carbon atoms;
- R², which are identical or different, are each chosen from C₄ to C₄₂ hydrocarbon-based groups with the proviso that at least 50% of all R² are chosen from C₃₀ to C₄₂ hydrocarbon-based groups;
- R³, which are identical or different, are each chosen from organic groups comprising atoms chosen from carbon atoms, hydrogen atoms, oxygen atoms and nitrogen atoms with the proviso that R³ comprises at least 2 carbon atoms; and
- R⁴, which are identical or different, are each chosen from hydrogen atoms, C₁ to C₁₀ alkyl groups and a direct bond to at least one group chosen from R³ and another R⁴

such that when said at least one group is chosen from another R^4 , the nitrogen atom to which both R^3 and R^4 are bonded forms part of a heterocyclic structure defined in part by R^4-N-R^3 , with the proviso that at least 50% of all R^4 are chosen from hydrogen atoms.

86. The composition according to claim 85, wherein in said formula (I), n is an integer ranging from 1 to 5.

87. The composition according to claim 86, wherein in said formula (I), n is an integer ranging from 3 to 5.

88. The composition according to claim 85, wherein in said formula (I), said alkyl groups of R' and said alkenyl groups of R^1 each independently comprise from 4 to 24 carbon atoms.

89. The composition according to claim 88, wherein in said formula (I), R^1 , which are identical or different, are each chosen from C_{12} to C_{22} alkyl groups.

90. The composition according to claim 89, wherein in said formula (I), R^1 , which are identical or different, are each chosen from C_{16} to C_{22} alkyl groups.

91. The composition according to claim 85, wherein in said formula (I), R^2 , which are identical or different, are each chosen from C_{10} to C_{42} hydrocarbon based groups with the proviso that at least 50% of all R^2 are chosen from C_{30} to C_{42} hydrocarbon based groups.

92. The composition according to claim 91, wherein at least 75% of all R^2 , which are identical or different, are chosen from C_{30} to C_{42} hydrocarbon based groups.

93. The composition according to claim 92, wherein in said formula (I), R^3 , which can be identical or different, are each chosen from C_2 to C_{36} hydrocarbon-based groups and polyoxyalkylene groups.

94. The composition according to claim 93, wherein R^3 , which can be identical or different, are each chosen from C_2 to C_{12} hydrocarbon-based groups.

95. The composition according to claim 68, wherein in said formula (I), R^4 , which can be identical or different, are each chosen from hydrogen atoms.

96. The composition according to claim 68, wherein said at least one polymer of formula (I) is in the form of a mixture of polymers, wherein said mixture optionally also comprises a compound of formula (I) wherein n is equal to zero.

97. The composition according to claim 68, wherein said at least one polyamide polymer is chosen from polymers resulting from at least one polycondensation reaction between at least one dicarboxylic acid comprising at least 32 carbon atoms and at least one amine chosen from diamines comprising at least 2 carbon atoms and triamines comprising at least 2 carbon atoms.

98. The composition according to claim 68, wherein said at least one dicarboxylic acid comprises from 32 to 44 carbon atoms and said at least one amine comprises from 2 to 36 carbon atoms.

99. The composition according to claim 98, wherein said at least one dicarboxylic acid is chosen from dimers of at least one fatty acid comprising at least 16 carbon atoms.

100. The composition according to claim 99, wherein said at least one fatty acid is chosen from oleic acid, linoleic acid and linolenic acid.

101. The composition according to claim 100, wherein said at least one amine is chosen from ethylenediamine, hexylenediamine, hexamethylenediamine, phenylenediamine and ethylenetriamine.

102. The composition according to claim 68, wherein said at least one polyamide polymer is chosen from polymers comprising at least one terminal carboxylic acid group.

103. The composition according to claim 102, wherein said at least one terminal carboxylic acid group is esterified with at least one alcohol chosen from monoalcohols comprising at least 4 carbon atoms.

104. The composition according to claim 102, wherein said at least one polyamide polymer is chosen from:

- polymers chosen from mixtures of copolymers derived from monomers of (i) C₃₆ diacids and (ii) ethylenediamine, and having a weight-average molecular mass of about 6000;

- polyamide polymers resulting from the condensation of at least one aliphatic dicarboxylic acid and at least one diamine, the carbonyl and amine groups being condensed via an amide bond; and

- polyamide resins from vegetable sources.

105. The composition according to claim 68, wherein said at least one polyamide polymer has a softening point greater than 50 °C.

106. The composition according to claim 105, wherein said at least one polyamide polymer has a softening point ranging from 65°C to 190°C.

107. The composition according to claim 106, wherein said at least one polyamide polymer has a softening point ranging from 70°C to 130°C.

108. The composition according to claim 107, wherein said at least one polyamide polymer has a softening point ranging from 80°C to 105°C.

109. The composition according to claim 104, wherein said at least one polyamide polymer is present in the composition in an amount ranging from 0.5% to 80% by weight relative to the total weight of the composition.

110. The composition according to claim 109, wherein said at least one polyamide polymer is present in the composition in an amount ranging from 2% to 60% by weight relative to the total weight of the composition.

111. The composition according to claim 110, wherein said at least one polyamide polymer is present in the composition in an amount ranging from 5% to 40% by weight relative to the total weight of the composition.

112. The composition according to claim 68, wherein said at least one liquid fatty phase of the composition comprises at least one oil.

113. The composition according to claim 112, wherein said at least one oil is chosen from at least one polar oil and at least one apolar oil.

114. The composition according to claim 113, wherein said at least one polar oil is chosen from:

- hydrocarbon-based plant oils with a high content of triglycerides comprising fatty acid esters of glycerol in which the fatty acids comprise chains having from 4 to 24 carbon atoms, said chains optionally being chosen from linear and branched, and saturated and unsaturated chains;

- synthetic oils or esters of formula R_5COOR_6 in which R_5 is chosen from linear and branched fatty acid residues comprising from 1 to 40 carbon atoms and $R_5 + R_6 \geq 10$;

- synthetic ethers containing from 10 to 40 carbon atoms;

- C_8 to C_{26} fatty alcohols; and

- C_8 to C_{26} fatty acids;

115. The composition according to claim 113, wherein said at least one apolar oil is chosen from:

- silicone oils chosen from volatile and non-volatile, linear and cyclic polydimethylsiloxanes that are liquid at room temperature;

- polydimethylsiloxanes comprising alkyl or alkoxy groups which are pendant and/or at the end of the silicone chain, the groups each containing from 2 to 24 carbon atoms;

- phenylsilicones; and

- hydrocarbons chosen from linear and branched, volatile and non-volatile hydrocarbons of synthetic and mineral origin.

116. The composition according to claim 112, wherein said at least one liquid fatty phase comprises at least one non-volatile oil.

117. The composition according to claim 116, wherein said at least one non-volatile oil is chosen from hydrocarbon-based oils of mineral, plant and synthetic origin, synthetic esters and ethers, and silicone oils.

118. The composition according to claim 117, wherein said at least one liquid fatty phase is present in an amount ranging from 1% to 99% by weight relative to the total weight of the composition.

119. The composition according to claim 118, wherein said at least one liquid fatty phase is present in an amount ranging from 5% to 95.5% by weight relative to the total weight of the composition.

120. The composition according to claim 119, wherein said at least one liquid fatty phase is present in an amount ranging from 10% to 80% by weight relative to the total weight of the composition.

121. The composition according to claim 120, wherein said at least one liquid fatty phase is present in an amount ranging from 20% to 75% by weight relative to the total weight of the composition.

122. The composition according to claim 112, wherein said at least one liquid fatty phase comprises at least one volatile solvent chosen from hydrocarbon-based solvents and silicone solvents optionally comprising alkyl or alkoxy groups that are pendant or at the end of a silicone chain.

123. The composition according to claim 122, wherein said at least one volatile solvent is present in an amount up to 95.5% relative to the total weight of the composition.

124. The composition according to claim 123, wherein said at least one volatile solvent is present in an amount ranging from 2% to 75% relative to the total weight of the composition.

125. The composition according to claim 124, wherein said at least one volatile solvent is present in an amount ranging from 10% to 45% relative to the total weight of the composition.

126. The composition according to claim 112, wherein said composition further comprises at least one additional fatty material.

127. The composition according to claim 126, wherein said at least one additional fatty material is chosen from gums, fatty materials pasty at ambient temperature, and resins.

128. The composition according to claim 68, wherein the composition is in a form chosen from a fluid simple emulsion, rigid simple emulsion, fluid multiple emulsion, and rigid multiple emulsion.

129. A method for providing solar protection to a keratinous material comprising applying a composition according to claim 1 to said keratinous material.

130. A method for providing solar protection to a keratinous material comprising applying a composition according to claim 85 to said keratinous material.

131. A foundation, mascara, eye liner, concealer, lipstick, blush for cheeks or eyelids, body makeup, sun screen, deodorant, colorant for skin or hair, skin care formula, shampoo, after shampoo treatment, or makeup removing product comprising:

at least one liquid fatty phase in said foundation, mascara, eye liner, concealer, lipstick, blush for cheeks or eyelids, body makeup, sun screen, deodorant, colorant for skin or hair, skin care formula, shampoo, after shampoo treatment, or makeup removing product which comprises:

(i) at least one structuring polymer comprising:

a polymer skeleton which comprises at least one hydrocarbon-based repeating unit comprising at least one hetero atom; and

(ii) at least one sunscreen agent.

132. A make-up and/or care and/or treatment composition for keratinous fibers comprising:

at least one liquid fatty phase in said composition which comprises:

(i) at least one structuring polymer comprising:

a polymer skeleton which comprises at least one hydrocarbon-based repeating unit comprising at least one hetero atom; and

(ii) at least one sunscreen agent.

133. A treatment, care or make-up composition for keratinous fibers comprising a structured composition containing at least one liquid fatty phase in said treatment, care or make-up composition structured with at least one structuring polymer comprising a polymer skeleton comprising at least one hydrocarbon-based repeating unit comprising at least one hetero atom, at least one sunscreen agent, and at least one coloring agent.

134. A method for care, make up, or treatment of a keratin material chosen from lips, skin, and keratinous fibers, comprising the application to said keratin material of a cosmetic composition comprising:

at least one liquid fatty phase which comprises:

(i) at least one structuring polymer comprising:

a polymer skeleton which comprises at least one hydrocarbon-based repeating unit comprising at least one hetero atom; and

(ii) at least one sunscreen agent.

135. A method for making a cosmetic composition in the form of a physiologically acceptable composition comprising including in said composition at least one liquid fatty phase which comprises:

(i) at least one structuring polymer comprising:

a polymer skeleton which comprises at least one hydrocarbon-based repeating unit comprising at least one hetero atom; and

(ii) at least one sunscreen agent.

136. The composition of claim 1, wherein the at least one structuring polymer is chosen from ethylene diamine/stearyl dimer tallate copolymer and ethylene diamine/stearyl dimer dilinoleate copolymer.

137. The composition of claim 85, wherein the at least one structuring polymer is chosen from ethylene diamine/stearyl dimer tallate copolymer and ethylene diamine/stearyl dimer dilinoleate copolymer.

ISSUED CLAIMS

Application No. 10/787,440

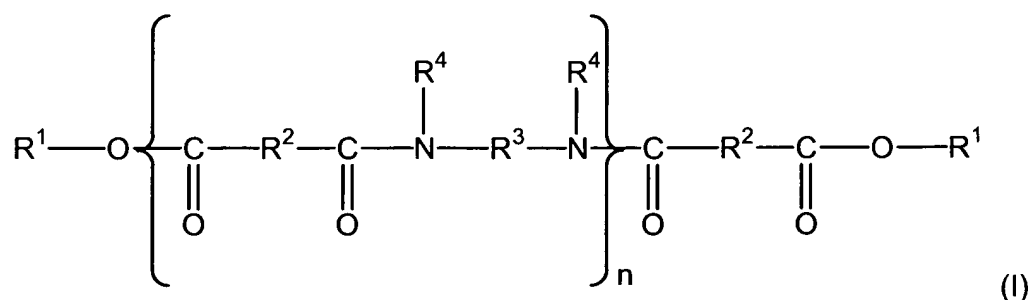
Patent No. 7,011,823

Attorney Docket No. 05725-0816-02000

Filed February 27, 2004

PENDING CLAIMS
Application No. 10/993,430
Attorney Docket No. 05725.1003-01000
Filed: November 22, 2004

1. A cosmetic composition comprising, in a physiologically acceptable medium, at least one first polymer of formula (I):



wherein:

n is an integer which represents the number of amide units such that the number of ester groups present in said at least one first polymer ranges from 10% to 50% of the total number of all said ester groups and all said amide groups comprised in said at least one first polymer;

R^1 , which are identical or different, are each chosen from alkyl groups comprising at least four carbon atoms and alkenyl groups comprising at least four carbon atoms;

R^2 , which are identical or different, are each chosen from C_4 to C_{42} hydrocarbon-based groups with the proviso that at least 50% of R^2 are chosen from C_{30} to C_{42} hydrocarbon-based groups;

R^3 , which are identical or different, are each chosen from organic groups comprising at least two carbon atoms, hydrogen atoms, and optionally at least one entity chosen from oxygen and nitrogen atoms; and

R^4 , which are identical or different, are each chosen from hydrogen, C_1 to C_{10} alkyl groups, and a direct bond to R^3 or another R^4 , such that the nitrogen atom to which R^3 and R^4 are both attached forms part of a heterocyclic structure defined by R^4-N-R^3 , with the proviso that at least 50% of all R^4 are chosen from hydrogen;

and a dispersion of particles of at least one second polymer that is film-forming and insoluble in said medium.

2. - 56. (Canceled)

57. The composition of claim 1, wherein the at least one first polymer has a weight-average molecular mass ranging from 1,000 to 100,000.

58. The composition of claim 57, wherein the at least one first polymer has a weight-average molecular mass ranging from 1,000 to 50,000.

59. The composition of claim 58, wherein the at least one first polymer has a weight-average molecular mass ranging from 1,000 to 30,000.

60. The composition of claim 1, wherein the at least one first polymer is chosen from ethylenediamine/stearyl dimer tallate copolymer and ethylenediamine/stearyl dimer dilinoleate copolymer.

61. The composition of claim 1, wherein the at least one first polymer is present in the composition in an amount ranging from 0.01% to 10% by weight, relative to the total weight of the composition.

62. The composition of claim 61, wherein the at least one first polymer is present in the composition in an amount ranging from 0.05% to 5% by weight, relative to the total weight of the composition.

63. The composition of claim 62, wherein the at least one first polymer is present in the composition in an amount ranging from 0.1% to 3% by weight, relative to the total weight of the composition.

64. The composition of claim 1, wherein the at least one second polymer is chosen from free-radical polymers, polycondensates, polymers of natural origin, and blends thereof.

65. The composition of claim 1, wherein the at least one second polymer is chosen from vinyl polymers, polyurethanes, polyesters, cellulose polymers, and blends thereof.

66. The composition of claim 1, further comprising an aqueous phase.

67. The composition of claim 66, wherein the aqueous phase comprises at least one water-soluble film-forming polymer.

68. The composition of claim 66, wherein the aqueous phase comprises water and, optionally, at least one water-miscible organic solvent.

69. The composition of claim 68, wherein water is present in the composition in an amount ranging from 5% to 90% by weight, relative to the total weight of the composition.

70. The composition of claim 68, wherein the at least one water-miscible organic solvent is chosen from lower monoalcohols comprising from 1 to 5 carbon

atoms, glycols comprising from 2 to 8 carbon atoms, C₃-C₄ ketones, and C₂-C₄ aldehydes.

71. The composition of claim 68, wherein the at least one water-miscible organic solvent is chosen from ethanol, isopropanol, propylene glycol, ethylene glycol, 1,3-butylene glycol, and dipropylene glycol.

72. The composition of claim 1, wherein the at least one second polymer is present in the form of particles dispersed in an aqueous phase.

73. The composition of claim 1, further comprising a liquid fatty phase.

74. The composition of claim 73, wherein the liquid fatty phase comprises at least one oil chosen from mineral oils, animal oils, plant oils, synthetic oils, hydrocarbon-based oils, fluorinated and/or silicone-based oils, and mixtures thereof.

75. The composition of claim 73, wherein the liquid fatty phase comprises at least one oil that is volatile at room temperature.

76. The composition of claim 73, wherein the liquid fatty phase comprises a volatile oil chosen from hydrocarbon-based volatile oils comprising from 8 to 16 carbon atoms.

77. The composition of claim 75, wherein the volatile oil is present in the composition in an amount ranging from 0.1% to 98% by weight, relative to the total weight of the composition.

78. The composition of claim 77, wherein the volatile oil is present in the composition in an amount ranging from 1% to 65% by weight, relative to the total weight of the composition.

79. The composition of claim 73, wherein the liquid fatty phase is present in the composition in an amount ranging from 2% to 98% by weight, relative to the total weight of the composition.

80. The composition of claim 79, wherein the liquid fatty phase is present in the composition in an amount ranging from 5% to 85% by weight, relative to the total weight of the composition.

81. The composition of claim 1, wherein the at least one second polymer is present in the form of surface-stabilized particles dispersed in a liquid fatty phase.

82. The composition of claim 81, wherein the particles of the at least one second polymer are surface-stabilized with at least one stabilizer chosen from block polymers, grafted-block polymers, grafted polymers, random polymers, and blends thereof.

83. The composition of claim 82, wherein the stabilizer is chosen from grafted-block and block polymers, comprising at least one block resulting from the polymerization of ethylenic monomers comprising at least one optionally conjugated ethylenic bond, and at least one block of a styrene polymer.

84. The composition of claim 1, wherein the at least one second polymer is present in the composition in an amount ranging from 0.1% to 60% by weight, relative to the total weight of the composition.

85. The composition of claim 84, wherein the at least one second polymer is present in the composition in an amount ranging from 10% to 45% by weight, relative to the total weight of the composition.

86. The composition of claim 1, wherein the size of the particles of the at least one second polymer ranges from 5 nm to 600 nm.

87. The composition of claim 86, wherein the size of the particles of the at least one second polymer ranges from 20 nm to 300 nm.

88. The composition of claim 1, further comprising at least one wax.

89. The composition of claim 88, wherein the at least one wax has a melting point ranging from 30°C to 120°C.

90. The composition of claim 88, wherein the at least one wax is chosen from beeswax, lanolin wax, Chinese insect waxes, rice wax, carnauba wax, candelilla wax, ouricury wax, cork fiber wax, sugar cane wax, Japan wax, sumach wax, montan wax, microcrystalline waxes, paraffin waxes, ozokerites, ceresin wax, lignite wax, polyethylene waxes, waxes obtained by Fisher-Tropsch synthesis, fatty acid esters of glycerides that are solid at 40°C, waxes obtained by catalytic hydrogenation of animal or plant oils containing linear or branched C₈-C₃₂ fatty chains, silicone waxes, fluoro waxes, and mixtures thereof.

91. The composition of claim 88, wherein the at least one wax is present in the composition in an amount ranging from 0.1% to 50% by weight, relative to the total weight of the composition.

92. The composition of claim 91, wherein the at least one wax is present in the composition in an amount ranging from 0.5% to 30% by weight, relative to the total weight of the composition.

93. The composition of claim 92, wherein the at least one wax is present in the composition in an amount ranging from 1% to 20% by weight, relative to the total weight of the composition.

94. The composition of claim 1, further comprising at least one dyestuff.

95. The composition of claim 94, wherein the at least one dyestuff is chosen from pigments, nacles, liposoluble dyes, water-soluble dyes, and mixtures thereof.

96. The composition of claim 94, wherein the at least one dyestuff is present in the composition in an amount ranging from 0.01% to 50% by weight, relative to the total weight of the composition.

97. The composition of claim 96, wherein the at least one dyestuff is present in the composition in an amount ranging from 0.01% to 30% by weight, relative to the total weight of the composition.

98. The composition of claim 1, further comprising at least one additive chosen from antioxidants, fillers, preserving agents, fragrances, neutralizing agents, thickeners, cosmetic active agents, dermatological active agents, and mixtures thereof.

99. The composition of claim 1, wherein the composition is in a form chosen from mascaras, eyeliners, products for the eyebrows, products for the lips, face powders, eyeshadows, foundations, make-up products for the body, concealer products, nail varnishes, skincare products, and haircare products.

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PENDING CLAIMS
U.S. Patent Application No. Unassigned
Attorney Docket No. 5725.1538-00000
Filed: December 21, 2005

1. A composition for coating keratin fibers, comprising, in a cosmetically acceptable medium:

- a non-aqueous solvent phase,
- at least one first polymer comprising
 - a) a polymer skeleton having hydrocarbon-based repeating units comprising at least one heteroatom, and
 - optionally b) at least one pendent fatty chain and/or at least one terminal fatty chain, which are optionally functionalized, comprising at least 4 carbon atoms and linked to the hydrocarbon-based units,
- the composition being wax-free and comprising less than 20% of water and/or water-soluble solvent.

2. The composition according to Claim 1, further comprising at least one second polymer chosen from liposoluble or lipophilic film-forming polymers.

3. The composition according to Claim 2, wherein the at least one second polymer chosen from liposoluble or lipophilic film-forming polymers is chosen from vinyl ester polymers and copolymers, vinylpyrrolidone copolymers, and dispersions of acrylic polymer particles in a liquid fatty phase, and mixtures thereof.

4. The composition according to claim 2, wherein the at least one second polymer chosen from liposoluble or lipophilic film-forming polymers is present in a solids content ranging from 0.1% to 40% by weight relative to the total weight of the composition.

5. The composition according to Claim 4, wherein the at least one second polymer chosen from liposoluble or lipophilic film-forming polymers is present in a solids content ranging from 1% to 20% by weight relative to the total weight of the composition.
6. The composition according to Claim 1, wherein the hydrocarbon-based repeating units comprise a nitrogen atom.
7. The composition according to Claim 1, wherein the hydrocarbon-based repeating units are amide groups.
8. The composition according to Claim 7, wherein the pendent fatty chains are directly linked to at least one of the nitrogen atoms of the amide groups.
9. The composition according to Claim 1, wherein the fatty chains are present in an amount ranging from 40% to 98% of the total number of units comprising a hetero atom and of fatty chains.
10. The composition according to Claim 9, wherein the fatty chains are present in an amount ranging from 50% to 95% of the total number of units comprising a hetero atom and of fatty chains.
11. The composition according to Claim 1, wherein the pendent fatty chains are directly linked to at least one of the heteroatoms.
12. The composition according to Claim 1, wherein the fatty chains contain from 6 to 120 carbon atoms.
13. The composition according to Claim 12, wherein the fatty chains contain from 8 to 120 carbon atoms.

14. The composition according to Claim 12, wherein the fatty chains are present in an amount ranging from 40% to 98% of the total number of amide units and of fatty chains.

15. The composition according to Claim 14, wherein the fatty chains are present in an amount ranging from 50% to 95% of the total number of amide units and of fatty chains.

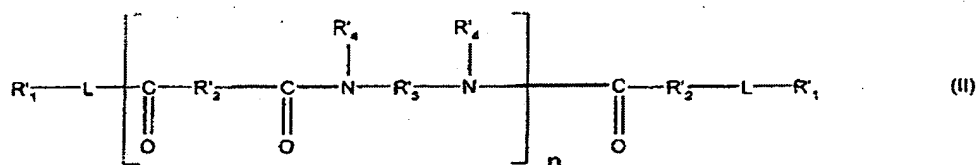
16. The composition according to Claim 1, wherein the average molar mass of the at least one first polymer is less than 100,000.

17. The composition according to Claim 1, wherein the at least one terminal fatty chain is linked to the polymer skeleton via bonding groups.

18. The composition according to Claim 17, wherein the bonding groups are ester groups.

19. The composition according to Claim 18, wherein the fatty chains contain from 12 to 68 carbon atoms.

20. The composition according to Claim 1, wherein the at least one first polymer is chosen from polyamides of formula (II):



wherein:

- n is an integer ranging from 1 to 30;
- R'₁, which are the same or different, are fatty chains chosen from alkyl and alkenyl groups comprising at least 1 carbon atom;

- R'₂, which are the same or different, are chosen from hydrocarbon-based radicals comprising from 1 to 52 carbon atoms;

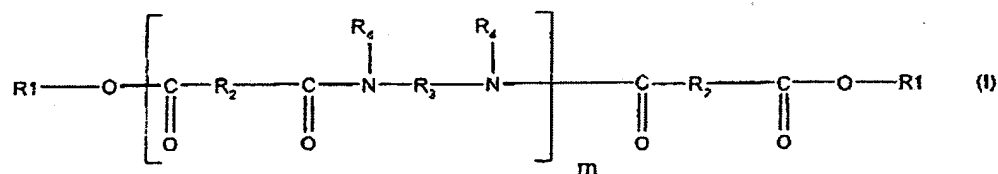
- R'₃, which are the same or different, are chosen from organic groups comprising at least one atom chosen from carbon, hydrogen and nitrogen atoms, with the proviso that R'₃ comprises at least 3 carbon atoms;

- R'₄, which are the same or different, are chosen from a hydrogen atom, an alkyl group comprising from 1 to 10 carbon atoms, and a direct bond to at least one group chosen from R'₃ and another R'₄ such that the nitrogen atom to which both R'₃ and R'₄ are attached forms part of a heterocyclic structure defined by R'₄-N-R'₃, with the proviso that at least 50% of the R'₄ groups are hydrogen atoms; and

- L is a bonding group chosen from ester, ether, amine, urea, urethane, thioester, thioether, thiourea and thiourethane groups, optionally substituted with at least one group R'₁ as defined above.

21. The composition according to Claim 20, wherein R'₁ are fatty chains chosen from alkyl and alkenyl groups comprising from 4 to 24 carbon atoms.

22. The composition according to Claim 1, wherein the at least one first polymer is chosen from polyamides of formula (I) below:



wherein:

- m is a whole number of amide units such that the number of ester groups represents from 10% to 50% of the total number of ester and amide groups;

- R_1 , which are the same or different, are chosen from alkyl and alkenyl groups comprising at least 4 carbon atoms;
- R_2 , which are the same or different, are chosen from C_4 to C_{42} hydrocarbon-based groups, with the proviso that 50% of the groups R_2 are chosen from C_{30} to C_{42} hydrocarbon-based groups;
- R_3 , which are the same or different, are chosen from organic groups comprising at least 2 carbon atoms, hydrogen atoms and optionally at least one oxygen or nitrogen atoms; and
- R_4 , which are the same or different, are chosen from a hydrogen atom, C_1 to C_{10} alkyl groups and a direct bond to an R_3 group or to another R_4 group, such that the nitrogen atom to which both R_3 and R_4 are attached forms part of a heterocyclic structure defined by R_4-N-R_3 , with the proviso that at least 50% of the groups R_4 are hydrogen atoms.

23. The composition according to Claim 22, wherein R_1 are chosen from are chosen from alkyl and alkenyl groups comprising from 4 to 24 carbon atoms.

24. The composition according to Claim 1, wherein the at least one first polymer is present in an amount ranging from 0.01% to 20% by weight relative to the total weight of the composition.

25. The composition according to Claim 1, wherein the non-aqueous solvent phase comprises at least one volatile compound.

26. The composition according to Claim 1, further comprising at least one additive chosen from dyestuffs, antioxidants, fillers, pasty fatty substances, preserving

agents, fragrances, neutralizers, gelling agents, thickeners, vitamins, coalescers and plasticizers, and mixtures thereof.

27. A composition for coating keratin fibers, comprising, in a cosmetically acceptable medium:

- a non-aqueous solvent phase,
- at least one first polymer comprising
 - a) a polymer skeleton having hydrocarbon-based repeating units comprising at least one hetero atom, and
 - optionally b) at least one pendent fatty chain and/or at least one terminal fatty chain, which are optionally functionalized, comprising at least 4 carbon atoms and linked to the hydrocarbon-based units,
- the composition having a solids content of less than or equal to 37% by weight relative to the total weight of the composition.

28. The composition according to Claim 27, further comprising at least one second polymer chosen from liposoluble or lipophilic film-forming polymers.

29. The composition according to Claim 28, wherein the at least one second polymer chosen from liposoluble or lipophilic film-forming polymers is chosen from vinyl ester polymers and copolymers, vinylpyrrolidone copolymers, and dispersions of acrylic polymer particles in a liquid fatty phase, and mixtures thereof.

30. The composition according to claim 28, wherein the at least one second polymer chosen from liposoluble or lipophilic film-forming polymers is present in a solids content ranging from 0.1% to 40% by weight relative to the total weight of the composition.

31. The composition according to Claim 27, wherein the hydrocarbon-based repeating units comprise a nitrogen atom.

32. The composition according to Claim 27, wherein the hydrocarbon-based repeating units are amide groups.

33. The composition according to Claim 32, wherein the pendent fatty chains are directly linked to at least one of the nitrogen atoms of the amide groups.

34. The composition according to Claim 27, wherein the fatty chains are present in an amount ranging from 40% to 98% of the total number of units comprising a hetero atom and of fatty chains.

35. The composition according to Claim 27, wherein the pendent fatty chains are directly linked to at least one of the heteroatoms.

36. The composition according to Claim 27, wherein the fatty chains contain from 6 to 120 carbon atoms.

37. The composition according to Claim 27, wherein the fatty chains are present in an amount ranging from 40% to 98% of the total number of amide units and of fatty chains.

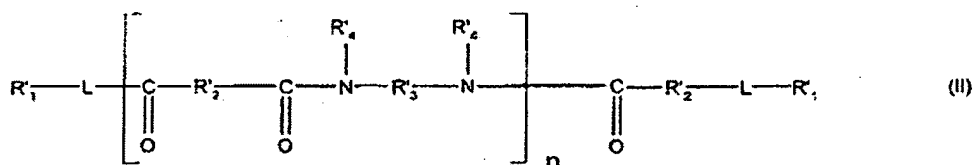
38. The composition according to Claim 27, wherein the average molar mass of the at least one first polymer is less than 100,000.

39. The composition according to Claim 27, wherein the at least one terminal fatty chain is linked to the polymer skeleton via bonding groups.

40. The composition according to Claim 39, wherein the bonding groups are ester groups.

41. The composition according to Claim 27, wherein the fatty chains contain from 12 to 68 carbon atoms.

42. The composition according to Claim 27, wherein the at least one first polymer is chosen from polyamides of formula (II):



wherein:

- n is an integer ranging from 1 to 30;
- R'₁, which are the same or different, are fatty chains chosen from alkyl and alkenyl groups comprising at least 1 carbon atom;

- R'₂, which are the same or different, are chosen from hydrocarbon-based radicals comprising from 1 to 52 carbon atoms;

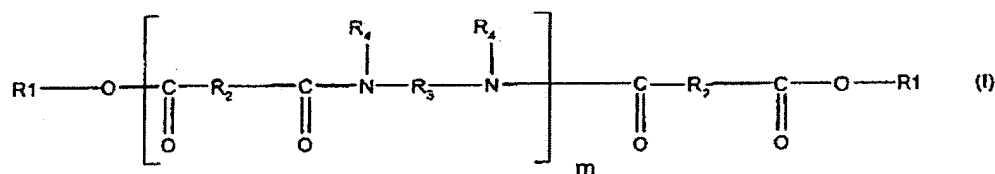
- R'₃, which are the same or different, are chosen from organic groups comprising at least one atom chosen from carbon, hydrogen and nitrogen atoms, with the proviso that R'₃ comprises at least 3 carbon atoms;

- R'₄, which are the same or different, are chosen from a hydrogen atom, an alkyl group comprising from 1 to 10 carbon atoms, and a direct bond to at least one group chosen from R'₃ and another R'₄ such that the nitrogen atom to which both R'₃ and R'₄ are attached forms part of a heterocyclic structure defined by R'₄-N-R'₃, with the proviso that at least 50% of the R'₄ groups are hydrogen atoms; and

- L is a bonding group chosen from ester, ether, amine, urea, urethane, thioester, thioether, thiourea and thiourethane groups, optionally substituted with at least one group R'₁ as defined above.

43. The composition according to Claim 42, wherein R'₁ are fatty chains chosen from alkyl and alkenyl groups comprising from 4 to 24 carbon atoms.

44. The composition according to Claim 27, wherein the at least one first polymer is chosen from polyamides of formula (I) below:



wherein:

- m is a whole number of amide units such that the number of ester groups represents from 10% to 50% of the total number of ester and amide groups;

- R_1 , which are the same or different, are chosen from alkyl and alkenyl groups comprising at least 4 carbon atoms;
- R_2 , which are the same or different, are chosen from C_4 to C_{42} hydrocarbon-based groups, with the proviso that 50% of the groups R_2 are chosen from C_{30} to C_{42} hydrocarbon-based groups;
- R_3 , which are the same or different, are chosen from organic groups comprising at least 2 carbon atoms, hydrogen atoms and optionally at least one oxygen or nitrogen atoms; and
- R_4 , which are the same or different, are chosen from a hydrogen atom, C_1 to C_{10} alkyl groups and a direct bond to an R_3 group or to another R_4 group, such that the nitrogen atom to which both R_3 and R_4 are attached forms part of a heterocyclic structure defined by R_4-N-R_3 , with the proviso that at least 50% of the groups R_4 are hydrogen atoms.

45. The composition according to Claim 44, wherein R_1 are chosen from alkyl and alkenyl groups comprising from 4 to 24 carbon atoms.

46. A composition for coating keratin fibers, comprising, in a cosmetically acceptable medium:

- a non-aqueous solvent phase,
- at least one first polymer comprising
 - a) a polymer skeleton having hydrocarbon-based repeating units comprising at least one heteroatom, and
 - optionally b) at least one pendent fatty chain and/or at least one terminal fatty chain, which are optionally functionalized, comprising at least 4 carbon atoms and

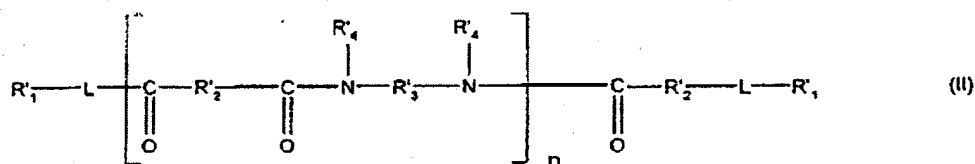
linked to the hydrocarbon-based units,

- at least one second polymer chosen from liposoluble or lipophilic film-forming polymers in a solids content of greater than or equal to 10% by weight relative to the total weight of the composition.

47. The composition according to Claim 46, wherein the at least one second polymer chosen from liposoluble or lipophilic film-forming polymers is chosen from vinyl ester polymers and copolymers, vinylpyrrolidone copolymers, and dispersions of acrylic polymer particles in a liquid fatty phase, and mixtures thereof.

48. The composition according to claim 46, wherein the at least one second polymer chosen from liposoluble or lipophilic film-forming polymers is present in a solids content of greater than or equal to 17% by weight relative to the total weight of the composition.

49. The composition according to Claim 46, wherein the at least one first polymer is chosen from polyamides of formula (II):



wherein:

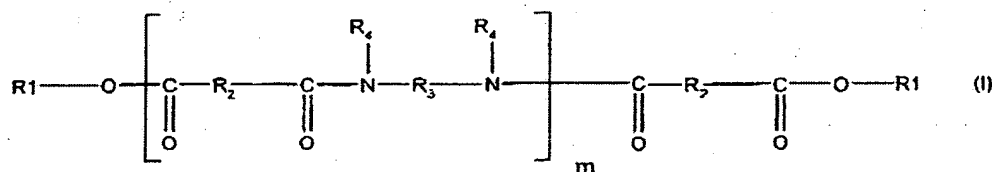
- n is an integer ranging from 1 to 30;
- R'₁, which are the same or different, are fatty chains chosen from alkyl and alkenyl groups comprising at least 1 carbon atom;
- R'₂, which are the same or different, are chosen from hydrocarbon-based radicals comprising from 1 to 52 carbon atoms;

- R'₃, which are the same or different, are chosen from organic groups comprising at least one atom chosen from carbon, hydrogen and nitrogen atoms, with the proviso that R'₃ comprises at least 3 carbon atoms;

- R'₄, which are the same or different, are chosen from a hydrogen atom, an alkyl group comprising from 1 to 10 carbon atoms, and a direct bond to at least one group chosen from R'₃ and another R'₄ such that the nitrogen atom to which both R'₃ and R'₄ are attached forms part of a heterocyclic structure defined by R'₄-N-R'₃, with the proviso that at least 50% of the R'₄ groups are hydrogen atoms; and

- L is a bonding group chosen from ester, ether, amine, urea, urethane, thioester, thioether, thiourea and thiourethane groups, optionally substituted with at least one group R'₁ as defined above.

50. The composition according to Claim 46, wherein the at least one first polymer is chosen from polyamides of formula (I) below:



wherein:

- m is a whole number of amide units such that the number of ester groups represents from 10% to 50% of the total number of ester and amide groups;

- R₁, which are the same or different, are chosen from alkyl and alkenyl groups comprising at least 4 carbon atoms;

- R_2 , which are the same or different, are chosen from C_4 to C_{42} hydrocarbon-based groups, with the proviso that 50% of the groups R_2 are chosen from C_{30} to C_{42} hydrocarbon-based groups;

- R_3 , which are the same or different, are chosen from organic groups comprising at least 2 carbon atoms, hydrogen atoms and optionally at least one oxygen or nitrogen atoms; and

- R_4 , which are the same or different, are chosen from a hydrogen atom, C_1 to C_{10} alkyl groups and a direct bond to an R_3 group or to another R_4 group, such that the nitrogen atom to which both R_3 and R_4 are attached forms part of a heterocyclic structure defined by R_4-N-R_3 , with the proviso that at least 50% of the groups R_4 are hydrogen atoms.

51. A process for making up or for the non-therapeutic care of keratin fibers, comprising applying to the keratin fibers a composition comprising, in a cosmetically acceptable medium:

- a non-aqueous solvent phase,

- at least one first polymer comprising

- a) a polymer skeleton, having hydrocarbon-based repeating units comprising at least one heteroatom, and

- optionally b) at least one pendent fatty chain and/or at least one terminal fatty chain, which are optionally functionalized, comprising at least 4 carbon atoms and linked to the hydrocarbon-based units,

- the composition being wax-free and comprising less than 20% of water and/or water-soluble solvent.

52 A process for coating keratin fibers, comprising applying to the keratin fibers:

- i) a first coat of a first composition,
- ii) and then, after partial or total drying of the first coat, at least one second coat of a second composition comprising

- a non-aqueous solvent phase,

- at least one first polymer comprising

- a) a polymer skeleton, having hydrocarbon-based repeating units comprising at least one heteroatom, and

- optionally b) at least one pendent fatty chain and/or at least one terminal fatty chain, which are optionally functionalized, comprising at least 4 carbon atoms and linked to the hydrocarbon-based units,

- the second composition being wax-free.

53. The process according to claim 52, wherein the keratin fibers are eyelashes.

54. A process for coating keratin fibers, comprising applying to the keratin fibers:

- i) at least one first coat of a first composition comprising at least 30% by weight water and/or a water-soluble solvent,
- ii) and then, after partial or total drying of the at least one first coat, at least one second coat of a second composition comprising

- a non-aqueous solvent phase,
- at least one first polymer comprising

a) a polymer skeleton, having hydrocarbon-based repeating units comprising at least one heteroatom, and

optionally b) at least one pendent fatty chain and/or at least one terminal fatty chain, which are optionally functionalized, comprising at least 4 carbon atoms and linked to the hydrocarbon-based units.

55. The process according to Claim 54 wherein the keratin fibers are eyelashes.

56. A makeup kit comprising:

- a first package comprising a first composition comprising at least 30% by weight water and/or a water-soluble solvent, and
- a second package comprising a second composition comprising

- a non-aqueous solvent phase,
- at least one first polymer comprising

a) a polymer skeleton, having hydrocarbon-based repeating units comprising at least one hetero atom, and

optionally b) at least one pendent fatty chain and/or at least one terminal fatty chain, which are optionally functionalized, comprising at least 4 carbon atoms and linked to the hydrocarbon-based units.

57. A process for coating keratin fibers, comprising applying to the keratin fibers:

- i) at least one first coat of a first composition with a dry extract of less than or equal to 50%,
- ii) and then, after partial or total drying of the at least one first coat, at least one second coat of a second composition comprising
 - a non-aqueous solvent phase, and
 - at least one first polymer comprising
 - a) a polymer skeleton, having hydrocarbon-based repeating units comprising at least one hetero atom, and
 - optionally b) at least one pendent fatty chain and/or at least one terminal fatty chain, which are optionally functionalized, comprising at least 4 carbon atoms and linked to the hydrocarbon-based units.

58. The process according to claim 57, wherein the keratin fibers are eyelashes.

59. A makeup kit comprising:

- a first package comprising a first composition with a dry extract of less than or equal to 50%,
- a second package comprising a second composition comprising
 - a non-aqueous solvent phase, and
 - at least one first polymer comprising

a) a polymer skeleton, having hydrocarbon-based repeating units comprising at least one hetero atom, and

optionally b) at least one pendent fatty chain and/or at least one terminal fatty chain, which are optionally functionalized, comprising at least 4 carbon atoms and linked to the hydrocarbon-based units.

PENDING CLAIMS
Application No. 11/406,371
Attorney Docket No. 06028.0130-00000
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1. A cosmetic skin make-up and/or care composition comprising an oily phase comprising suspended silica particles and reflecting particles, wherein the oily phase comprises at least one polymer having a weight-average molecular weight of less than 100,000, comprising

(a) a polymer skeleton comprising hydrocarbon repeat units including at least one heteroatom, and

(b) optionally at least one pendant fatty chain and/or at least one terminal fatty chain which may be optionally functionalized, comprise from 6 to 120 carbon atoms, and which are bonded to the hydrocarbon repeat units.

2. The composition of Claim 1, wherein the at least one polymer is chosen from polyamides having a weight-average molecular weight of less than 100,000, comprising

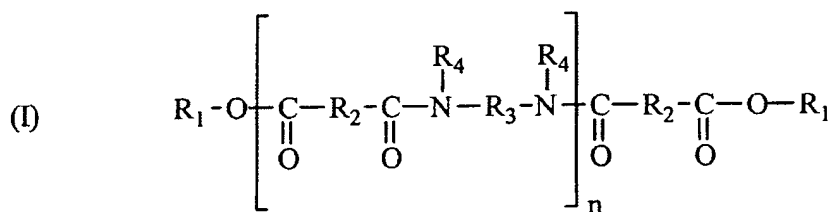
(a) a polymer skeleton comprising hydrocarbon repeat units which are amides, and

(b) optionally at least one pendant fatty chain and/or at least one terminal fatty chain which may be optionally functionalized, comprise from 8 to 120 carbon atoms, and which are bonded to the hydrocarbon repeat units which are amides.

3. The composition of Claim 2, wherein the fatty chains represent from 40 to 98% of the total number of amide units and fatty chains.

4. The composition of Claim 2, wherein the fatty chains represent from 50 to 95% of the total number of amide units and fatty chains.

5. The composition of Claim 2, wherein the pendant fatty chains are bonded directly to at least one of the nitrogen atoms of the amide units.
6. The composition of Claim 1, wherein the average molecular weight of the polymer ranges from 1000 to 100,000.
7. The composition of Claim 6, wherein the average molecular weight of the polymer ranges from 1000 to 50,000.
8. The composition of Claim 7, wherein the average molecular weight of the polymer ranges from 1000 to 30,000.
9. The composition of Claim 1, wherein the weight-average molecular weight of the polymer ranges from 2000 to 20,000.
10. The composition of Claim 9, wherein the weight-average molecular weight of the polymer ranges from 2000 to 10,000.
11. The composition of Claim 1, wherein the at least one terminal fatty chain is bonded to the skeleton by linking groups.
12. The composition of Claim 11, wherein the linking groups are ester groups.
13. The composition of Claim 1, wherein the at least one fatty chain comprises from 12 to 68 carbon atoms.
14. The composition of Claim 1, wherein the polymer is chosen from polyamides of formula (I):



in which

n denotes a whole number of amide units such that the number of ester groups represents from 10% to 50% of the total number of ester and amide groups;

R₁ is independently chosen from alkyl and alkenyl groups comprising at least 4 carbon atoms;

R₂ is independently chosen from C₄ to C₄₂ hydrocarbon groups, with the proviso that 50% of the groups R₂ are chosen from C₃₀ to C₄₂ hydrocarbon groups;

R₃ is independently chosen from organic groups comprising at least 2 carbon atoms, hydrogen, and optionally at least one entity chosen from oxygen and nitrogen; and

R₄ is independently chosen from hydrogen, C₁ to C₁₀ alkyl groups, and a direct bond to R₃ or to another R₄ such that the nitrogen atom to which both R₃ and R₄ are bonded forms part of a heterocyclic structure defined by R₄-N-R₃, with the proviso that at least 50% of the groups R₄ are hydrogen.

15. The composition according to Claim 14, wherein R₁ is independently chosen from alkyl and alkenyl groups comprising from 4 to 24 carbon atoms.

16. The composition of Claim 14, wherein R₁ is chosen from C₁₂ to C₂₂ alkyl groups.

17. The composition of Claim 14, wherein R₂ comprises from 30 to 42 carbon atoms.

18. The composition of Claim 1, wherein the at least one polymer is present in the composition in an amount ranging from 0.01% to 10% by weight, relative to the total weight of the composition.

19. The composition of Claim 18, wherein the at least one polymer is present in the composition in an amount ranging from 0.05% to 5% by weight, relative to the total weight of the composition.

20. The composition of Claim 19, wherein the at least one polymer is present in the composition in an amount ranging from 0.1% to 3% by weight, relative to the total weight of the composition.

21. The composition of Claim 1, wherein the silica particles are present in the composition in an amount ranging from 0.1% to 12% by weight, relative to the total weight of the composition.

22. The composition of Claim 21, wherein the silica particles are present in the composition in an amount ranging from 0.5% to 10% by weight, relative to the total weight of the composition.

23. The composition of Claim 22, wherein the silica particles are present in the composition in an amount ranging from 6% to 8% by weight, relative to the total weight of the composition.

24. The composition of Claim 1, wherein the reflecting particles have a spectral reflectance in the visible spectrum of at least 70%.

25. The composition of Claim 1, wherein the reflecting particles have a dimension of less than or equal to 250 μm .

26. The composition of Claim 25, wherein the reflecting particles have a dimension of less than or equal to 150 μm .

27. The composition of Claim 26, wherein the reflecting particles have a dimension of less than or equal to 100 μm .

28. The composition of Claim 1, wherein the reflecting particles have a dimension of at least 10 μm .

29. The composition of Claim 28, wherein the reflecting particles have a dimension ranging from 20 to 80 μm .

30. The composition of Claim 1, wherein the reflecting particles are present in the composition in an amount ranging from 0.1 to 20%, relative to the total weight of the composition.

31. The composition of Claim 30, wherein the reflecting particles are present in the composition in an amount ranging from 1 to 15%, relative to the total weight of the composition.

32. The composition of Claim 31, wherein the reflecting particles are present in the composition in an amount ranging from 1 to 10%, relative to the total weight of the composition.

33. The composition of Claim 1, wherein the reflecting particles are in the shape of wafers or spheres.

34. The composition of Claim 1, wherein the reflecting particles comprise particles having a natural or synthetic substrate that is at least partially coated with a layer of at least one metal.

35. The composition of Claim 34, wherein the at least one metal is chosen from Ag, Au, Cu, Al, Zn, Ni, Mo, Cr, and mixtures and alloys thereof.

36. The composition of Claim 36, wherein the at least one metal is chosen from Ag and its alloys.

37. The composition of Claim 34, wherein the substrate is chosen from substrates comprising at least one material, organic substrates, inorganic substrates, glasses, ceramics, metal oxides, aluminas, silicas, silicates, synthetic mica, and mixtures thereof.

38. The composition of Claim 37, wherein the silicates are chosen from aluminosilicates and borosilicates.

39. The composition of Claim 1, wherein the reflecting particles are at least partially composed of particles having a synthetic substrate that is at least partially coated with at least one layer of at least one metal compound.

40. The composition of Claim 39, wherein the at least one metal compound is chosen from metal oxides.

41. The composition of Claim 39, wherein the synthetic substrate is chosen from substrates comprising at least one materials, organic substrates, inorganic substrates, glasses, ceramics, metal oxides, aluminas, silicas, silicates, synthetic mica, and mixtures thereof.

42. The composition of Claim 39, wherein the metal compound is chosen from titanium oxides, iron oxides, tin oxides, barium sulphate, MgF_2 , CeF_3 , ZnS , ZnSe , SiO_2 , Al_2O_3 , MgO , Y_2O_3 , SeO_3 , SiO , HfO_2 , ZrO_2 , CeO_2 , Nb_2O_5 , Ta_2O_5 , MoS_2 , and mixtures thereof.

43. The composition of Claim 42, wherein the metal oxide is chosen from TiO_2 and Fe_2O_3 .

44. The composition of Claim 42, wherein the metal compound is chosen from titanium oxides, iron oxides, tin oxides, and mixtures thereof.

45. The composition of Claim 44, wherein the metal compound is TiO_2 .
46. The composition of Claim 1, wherein the reflecting particles comprise particles formed of a stack of at least two layers with different refractive indices.
47. The composition of Claim 46, wherein the reflecting particles comprise particles formed of a stack of at least two layers of polymers.
48. The composition of Claim 1, wherein the reflecting particles are at least partially composed of particles of at least one metal oxide.
49. The composition of Claim 48, wherein the at least one metal oxide is chosen from iron oxides and titanium oxides.
50. The composition of Claim 1, wherein the reflecting particles are present in the composition in an amount ranging from 0.01% to 10% by weight, relative to the total weight of the composition.
51. The composition of Claim 1, further comprising at least one agent chosen from pigments, pearlescent products, and/or lakes.
52. The composition of Claim 1, further comprising at least one active ingredient chosen from moisturizers, vitamins, essential fatty acids, essential oils, ceramides, sphingolipids, liposoluble sun filters, and sun filters in the form of nanoparticles.
53. The composition of Claim 1, further comprising at least one ingredient chosen from thickeners, surfactants, trace elements, moisturizers, softeners, sequestering agents, perfumes, alkalizing agents, acidifying agents, preservatives, antioxidants, UV filters, and mixtures thereof.

54. The composition of Claim 1, wherein the weight ratio of polymer to silica particles ranges from 1:1000 to 1:1.

55. The composition of Claim 54, wherein the weight ratio of polymer to silica particles ranges from 1:100 to 1:10.

56. The composition of Claim 55, wherein the weight ratio of polymer to silica particles ranges from 5:1000 to 5:100.

57. A process for the preparation of a cosmetic skin make-up and/or care composition comprising mixing silica particles, reflecting particles, and at least one polymer having a weight-average molecular weight of less than 100,000,

wherein the at least one polymer comprises:

(a) a polymer skeleton comprising hydrocarbon repeat units including at least one heteroatom, and

(b) optionally at least one pendant fatty chain and/or at least one terminal fatty chain which may be optionally functionalized, comprise from 6 to 120 carbon atoms, and which are bonded to the hydrocarbon repeat units.

58. A gloss comprising a cosmetic composition comprising an oily phase comprising suspended silica particles and reflecting particles, wherein the oily phase comprises at least one polymer having a weight-average molecular weight of less than 100,000, comprising

(a) a polymer skeleton comprising hydrocarbon repeat units including at least one heteroatom, and

(b) optionally at least one pendant fatty chain and/or at least one terminal fatty chain which may be optionally functionalized, comprise from 6 to 120 carbon atoms, and which are bonded to the hydrocarbon repeat units.

59. A method for obtaining a glossy deposit comprising applying a cosmetic composition to a substrate, wherein the cosmetic composition comprises an oily phase comprising suspended silica particles and reflecting particles, wherein the oily phase comprises at least one polymer having a weight-average molecular weight of less than 100,000, comprising

(a) a polymer skeleton comprising hydrocarbon repeat units including at least one heteroatom, and

(b) optionally at least one pendant fatty chain and/or at least one terminal fatty chain which may be optionally functionalized, comprise from 6 to 120 carbon atoms, and which are bonded to the hydrocarbon repeat units.